Form 3160-3	Ì
(July 1992)	

## UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

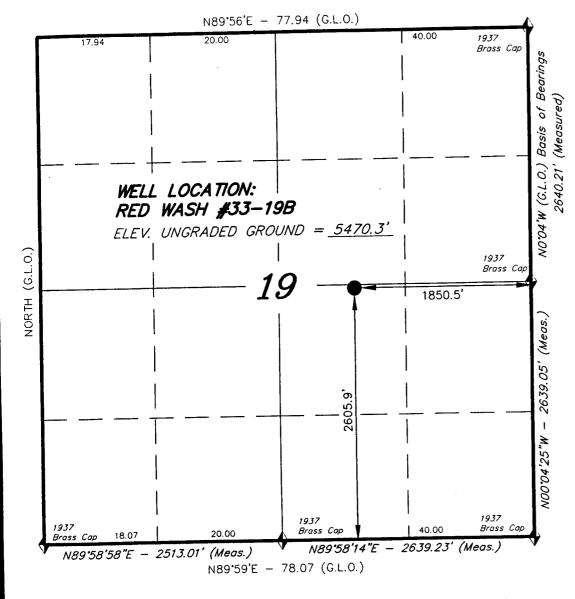
FORM APPROVED
OMB NO. 1004-0136
Evident Volumes 28, 1006

	DEPARTMEN	· -· ···- ·				5. LEASE DESIGNATIO	IN AND SERIAL NO.
APPLICATION FOR PERMIT TO DRILL OR DEEPEN				U - 02030			
				6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
1a. TYPE OF WORK				W Prelet		N/A	
	ILL X	DEEPEN (				7. UNIT AGREEMENT	NAME
N. TYPE OF WELL.	BAS			INGLE MULTI		Red Wash	
WELL X GAS SINGLE MULTIPLE  2. NAME OF OPERATOR				& FARM OR LEASE N	ME, WELL NO.		
Shenandoah Energ	T. Too					Federal	
						9. API WELL NO.	
o, Automos Arti Internior	ENO. Phone: 435-781-4			ast 17500 South		#33-19B	
A LOCATION OF WELL (Per	Fax: 435-781-432 out location clearly and in accord	9 Ve	mai, l	Jtah 84078		10. FIELD AND POOL, O	OR WILDCAT
At surnice		=		4 i 4		Red Wash	
2605.9' FSL 1850	.5' FEL			0461 N		AND SURVEY OR A	獣 NWSE
At proposed prod. zone Same			639	9058 <b>E</b>		Sec. 19, T7S, R	23E, SLB&M
	DIRECTION FROM NEAREST TO	TWN OR POST OFFICE	Re			12. COUNTY OR PARIS	7 1 10
2.5 miles West of						Uintah	I 13. STATE Utah
15. DESTANCE FROM PROPO	GED*		16. NO	OF ACRES IN LEASE	17, NO. 0	ACRES ASSIGNED	CIMI
LOCATION TO NEAREST PROPERTY OR LEASE LIE				1875.8		B WELL	
(Also to mescest drig, unit lie	e if eay)					40	
18. DISTANCE FROM PROPO TO NEAREST WILL, DRII OR APPLIED FOR ON THE	LING, COMPLETED, ±100	0'	19. PR	0POSED DEPTH 5950'	20. ROTA	Rotary	
21. ELEVATIONS (Show what						22. APPROX DATEV	VOLK WILL START
5470.3'						A.S.A.P.	
3.		PROPOSED CASI	NG AN	D CEMENTING PROGRAM	4		<del></del>
SIZE OF HOLE	GRADE, SEZE OF CASENG	WEIGHT PER PO		SETTING DEPTH	<del>-</del>	ATTA STREET AND ATT	
12 1/4"	K55 8 5/8" new	24#		450'	120 -	QUANTITY OF CE	MBNT
7 7/8"	K55 51/2" new	15.5#		5950'		- Class G - Class G	
State of Utah required See Onshore Order Please be advised to Shenandoah Energy conducted upon the Bond coverage for Energy Inc. via sure NABOVE SPACE DESCRIPTION of SPACE DESCR	No. 1 attached.  hat Shenandoah Energy y Inc. agrees to be resp	y Inc. is considered and the consible under by Bond No. 09 ded for in 43 C	lered to the ter 69. TI IFR 3	to be the operator of rms and conditions on the principal is Shena 104.2.	the above of the lease	mentioned well.	
и.	-						
SIGNED OL	Busch John	Busch m	er P	ked Wash Oper. Rep	•	date_ <i>F</i> e	6 15-2000
(This space for Federal c	or State office use)	· · · · · · · · · · · · · · · · · · ·					
PERMIT NO.	43-047-33499			APPROVAL DATE			
Application approval does	not werrant or certify that the appli	icent holds logal or eq	zitable tit	ie to those zights in the subject	lease which we	raid entitle the applicant to	conduct operations there
CONDITIONS OF APPROV	ONLY ANT:	ния ния	in the second	BRADLEY G.	HILL	\ \ \	වට

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes the crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## T7S, R23E, S.L.B.&M.



= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (RED WASH)

### SHENANDOAH ENERGY, INC.

WELL LOCATION, RED WASH #33-19B, LOCATED AS SHOWN IN THE NW 1/4 SE 1/4 OF SECTION 19, T7S, R23E, S.L.B.&M. UINTAH COUNTY, UTAH.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS SERVISION AND THAT TO THE BEST OF THE SAME A MY KNOWLE

38 WEST 100 NORTH - VERNAL, UTAH 84078 (435) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: D.S.
DATE: 1-28-00	WEATHER: FAIR
NOTES:	FILE #

#### DRILLING PROGRAM

# ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

#### 1. Formation Tops

The estimated tops of important geologic markers are as follows:

Formation	Depth	Prod. Phase Anticipated
Uinta	Surface	-
Green River	3030'	
Mahogany Ledge	3810'	
Mesa Marker	5680'	Oil

#### 2. Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas. Or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Oil/Gas	Green River	5950'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted.

#### DRILLING PROGRAM

- 3. Operator's Specification for Pressure Control Equipment:
  - A. 2,000 psi W.P. Double Gate BOP or Single Gate BOP (schematic attached)
  - B. Functional test daily
  - C. All casing strings shall be pressure tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
  - D. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing whichever is less. Tests shall be done at the time of installation, prior to drilling out and weekly. All tests shall be for a period of 15 minutes

4. <u>Casir</u>	g Program				
	<u>Depth</u>	Hole Size	Csg Size	<u>Type</u>	Weight
Surface	450'	12-1/4"	8-5/8"	K-55	24lb/ft (new)
Production	5950'	7-7/8"	5-1/2"	K-55	15.5lb/ft (new)

#### 5. Auxiliary Equipment

- A. Kelly Cock yes
- B. Float at the bit no
- C. Monitoring equipment on the mud system visually
- D. Full opening safety valve on the rig floor yes
- E. Rotating Head yes
- F. The blooie line shall be at least 6" in diameter and extend at least 100' from the well bore into the reserve/blooie pit.
- G. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500').

#### DRILLING PROGRAM

- H. Compressor shall be tied directly to the blooie line through a manifold.
- I. A mister with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression.

#### 6. Proposed circulating medium

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. It is not intended to use oil in the mud, however, in the event it is used, oil concentration will be less than 4% by volume. Maximum anticipated mud weight is 9.5 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

- 7. Testing, logging and coring program
  - A. Cores none anticipated
  - B. DST none anticipated

Logging – Mud logging – 4500 to TD GR-SP-Induction Neutron Density MRI

C. Formation and Completion Interval: Green River interval, final determination of completion will be made by analysis of logs.
 Stimulation – Stimulation will be designed for the particular area of interest as encountered.

ONSHORE OIL & GAS ORL NO. 1 Shenandoah Energy Inc. Red Wash #33-19B

#### DRILLING PROGRAM

### 8. Cementing Program

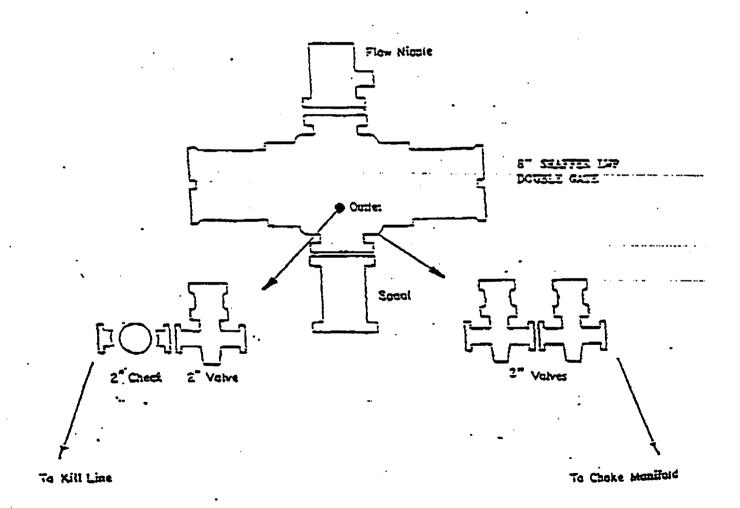
Casing	<u>Volume</u>	Type & Additives
Surface	130 sx	Class "G" single slurry mixed to 15.6 ppg, yield = 1.19 cf/sx. Fill to surface with 160 cf (130 sx) calculated. Tail plug used. Allowed to set under pressure
Production	630 sx*	Design Parameters:  TD = 5950', Tail top @ 4200', add 50% excess for hole washout. Lead yield = 3.82 cf/sx. Tail yield = 1.34 cf/sx  Lead Cement  Class G & additives mixed to 11 ppg plus 50% excess = ~290 sxs  Tail Cement  Class G & additives mixed to 14.8 ppg plus 50% excess = ~340 sxs

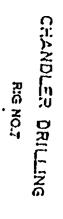
Actual volumes will vary and be calculated based on the open hole caliper logs. Sufficient cement excess will be pumped in an attempt to bring cement to the surface

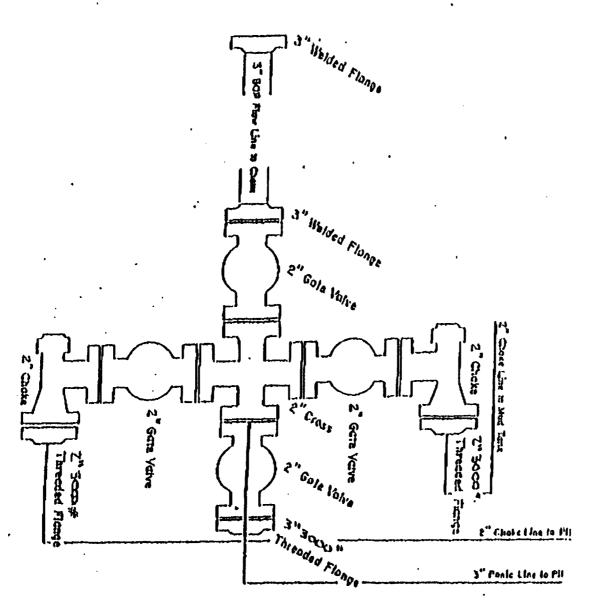
#### 9. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H2S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 2560 psi. Maximum anticipated bottom hole temperature is 140° F.

CHANDLER DRILLING RIG NOT







#### **Multi-Point Surface Use and Operations Plan**

SHENANDOAH ENERGY INC. RED WASH #33-19B NW SE SEC. 19, T7S, R23E UINTAH COUNTY, UTAH

#### 1. EXISTING ROADS: Refer to maps "A" & "B"

- A. Map "A" is the vicinity map showing the Access routes from Red Wash, Utah
- B. Topo Map "B" shows the proposed access road to the pad as well as the existing roads in the immediate area
- C. Occasional maintenance blading and storm repairs will keep roads in good condition.
- D. There shall be no mud blading on the access road. Vehicles may be towed through the mud provided they stay on the roadway.
- E. All road construction and maintenance will conform to standards identified in "Surface Operating Standards for Oil and Gas Exploration and Development" (Gold Book) U.S. Department of the Interior-BLM and U.S. Department of Agriculture-Forest Service; January 1989.

#### 2. PLANNED ACCESS ROADS: Refer to Map "B"

Approximately 0.25 mile of new road construction will be required for access to the proposed location.

- A. Width maximum 30-foot overall right-of-way with an 18-foot road running surface, crowned & ditched and/or sloped and dipped.
- B. Construction standard the access road will be constructed to same standards as previously accepted in this area.

The road will be constructed to meet the standards of the anticipated traffic flow and all weather requirements. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well constructed and safe road.

Traveling off of the thirty (30) foot right-of-way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or the accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of the drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts.

Upgrading shall not be allowed during muddy conditions.

Should mud holes develop, they will be filled in and detours around them avoided.

- C. Maximum grade grade will be less than 8%.
- D. Drainage design the access road will be crowned and ditched or sloped and dipped, and water turnouts installed as necessary to provide proper drainage along the access road route.
- E. Turnouts none.
- F. Culverts none
- G. Surface materials any surfacing materials required will be purchased from a local contractor having a permitted source of materials in the area. None are anticipated at this time.
- H. Gates, cattleguards or fence cuts none required
- I. The proposed access road has been centerline flagged.
- J. Dust will be controlled on the roads and locations during construction and drilling by periodic watering of the roads and locations.

#### 3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS

Please refer to map "C".

## 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES OWNED BY SHENANDOAH ENERGY INC. WITHIN A ONE MILE RADIUS:

- A. Existing
  - 1. Tank batteries see Map "C"
  - 2. Production facilities see Map "C"
  - 3. Oil gathering lines see Map "C"

- 4. Gas gathering lines see Map "C"
- 5. Injection lines see Map "C"
- 6. Disposal lines see Map "C"
- B. New Facilities Contemplated: in the event of production the following will be shown.
  - 1. Proposed location and attendant lines, by flagging, if off well pad.
  - Dimensions of facilities.
  - 3. Construction methods and materials.
  - Protective measures and devices to protect livestock and wildlife.
  - 5. All buried pipelines will be buried to depth of 3 feet except at road crossings where they will be buried to a depth of 4 feet.
  - 6. Construction width of the right-of-way/pipeline route shall be restricted to 50 feet of disturbance.
  - 7. Shenandoah Energy Inc. shall condition pipeline right-of-ways in a manner to preclude vehicular travel upon said rights-of-way, except for access to pipeline drips and valves.
  - 10. The area used to contain the proposed production facilities will be built using native materials. If these materials are not acceptable arrangements will be made to acquire appropriate materials from private sources.
  - 11. A dike will be constructed completely around any those production facilities which contain fluids (i.e. production tanks, produced water tanks etc.). These dikes will be constructed of compacted subsoil, be impervious, hold 110% of the capacity of the largest tank and be independent of the back cut.
  - 12. All permanent (onsite for six months or longer) above-the-ground constructed or installed, including pumping units, will be painted a flat non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Five State Rocky Mountain Interagency Committee. All production facilities will be painted within six months of installation. Facilities required to comply with Occupational Health and Safety Act Rules and Regulations will be excluded from this painting requirement.

The required paint color is Carlsbad Canyon (2.5Y 6/2).

- C. The production (emergency) pit will be fenced.
- D. During drilling and subsequent operations, all equipment and vehicles will be confined to the access road right-of-way and any additional areas as specified in the approved Application for Permit to Drill.
- E. Reclamation of disturbed areas no longer needed for operation will be accomplished by grading, leveling and seeding as recommended by the Bureau of Land Management.
- F. A proposed oil gathering pipeline has been flagged and is shown on Map "D".
- G. Shenandoah Energy Inc. will be responsible for road maintenance from the beginning to completion of operations.

#### 5. Location and Type of Water Supply

- A. Wonsits Valley Federal Unit water supply wells 1965 Application #36125
- B. Water well in Ouray operated by A-1 Tank and Brine, Permit #43-8496

#### 6. Source of Construction Materials

A. No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from a local gravel pit over existing access roads to the area. No special access other than for drilling operations and pipeline construction is needed.

#### 7. Methods of Handling Waste Materials:

- A. Cuttings the cuttings will be deposited in the reserve/blooie pit.
- B. Drilling fluids including salts and chemicals will be contained in the reserve/blooie pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within ninety (90) days after termination of drilling and completion activities.

In the event adverse weather conditions prevent removal of the fluids from the reserve pit within this time period, an extension may be granted by the Authorized Officer upon receipt of a written request from Shenandoah Energy

Inc

The reserve pit will be constructed so as not or allow discharge and will be lined with a 12 mil plastic liner.

C. Produced fluids - liquid hydrocarbons produced during completion operations will be placed in test tanks on the location. Produced waste water will be confined to a lined pit (reserve pit) or storage tank for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, in accordance with Onshore Order 7, an application for approval of a permanent disposal method and location, along with the required water analysis, shall be submitted for the Authorized Officer's approval. Failure to file an application within the time frame allowed will be considered an incidence of noncompliance.

Any spills of oil, gas, salt water or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

- D. Sewage self-contained, chemical toilets will be provided for human waste disposal. Upon completion of operations, or as needed, the toilet holding tanks will be pumped and the contents thereof disposed of in the nearest, approved, sewage disposal facility.
- E. Garbage and other waste material garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash cage during drilling and completion operations. Upon completion of operations (or as needed) the accumulated trash will be disposed of at an authorized sanitary landfill. No trash will be burned on location or placed in the reserve pit.
- F. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the well location. No adverse materials will be left on the location. Any open pits will be fenced during the drilling operation and the fencing will be maintained until such time as the pits are backfilled.
- G. The reserve and/or production pit will be constructed on the existing location and will not be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls. All pits will be constructed so as not to leak, break, or allow the discharge of liquids therefrom.
- H. Hazardous materials: No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000# will be used, produced, stored, transported or disposed of annually in association with the drilling, testing or completing of wells within the Red Wash area. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold

Shenandoah Energy Inc. Red Wash #33-19B

planning quantities, will not be used, produced, stored transported or disposed of in association with the drilling, testing or completing of wells within this area.

8. Ancillary Facilities: None anticipated

#### 9. Wellsite Layout:

- A. Plat #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the location. An average minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site. Topsoil stockpile will be seeded with a seed mixture to be recommended by the B.L.M. Refer to Figure #1 for the location of the topsoil and subsoil stockpiles.
- B. Plat #2 is a diagram showing the rig layout. No permanent living facilities are planned. There will be one (1) trailer on location during drilling operation for the toolpusher.
- C. A diagram showing the proposed production facility layout will be submitted to the Authorized Officer via Sundry Notice (Form 3160-5) for approval of subsequent operations.
- D. Prior to the commencement of drilling operations, the reserve pit will be fenced on three (3) sides using 39 inch net wire with at least one strand of barbed wire on top of the net wire.
  - 1. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of fence shall be at least 42-inches.
  - 2. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times
  - 3. Standard steel, wood, or pipe posts shall be used between the corner braces. The maximum distance between any two (2) posts shall be no greater than sixteen (16) feet.
  - 4. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The fourth side of the reserve pit will be fenced immediately upon removal of

the drilling rig and the fencing will be maintained until the pit is backfilled.

F. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed.

#### 10. Plans for Reclamation of the Surface:

The B.L.M. will be contacted prior to commencement of any reclamation operations.

#### A. Production

- 1. Immediately upon well completion, the well location and surrounding area(s) will be cleared of all debris, materials, trash and junk not required for production.
- 2. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.
- 3. If a plastic or nylon reinforced pit liner is used, it shall be torn and perforated before backfilling of the reserve pit.
- 4. Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all cans, barrels, pipe, etc. will be removed.
  - Other waste and spoil materials will be disposed of immediately upon completion of drilling and workover activities.
- 5. The flare pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed within ninety (90) days from the date of well completion, weather permitting.
- 6. If the well is a producer, Shenandoah will: Upgrade and maintain access roads as necessary prevent soil erosion, and accommodate year traffic. Reshape areas unnecessary to operations, distribute topsoil, disk and seed all disturbed area outside the work area according to the BLM recommended seed mixture.

If the well is abandoned/dry hole, Shenandoah will: Restore the access road and location to approximately the original contours. During reclamation of the site, push the fill material into cuts and up over the backslope. Leave no depressions that will trap water or form ponds. Distribute topsoil evenly over the location, and seed according to the above seed mixture. The access road and location shall be ripped or disked prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

Seedbed will be prepared by disking. Seed will be drilled on contours at a depth no greater than one-half inch (1/2"). In areas that cannot be drilled, seed will be broadcast at double the seeding rate and harrowed into soil. Certified seed will be used whenever available.

Fall seeding will be completed after September 1 and prior to prolonged ground frost.

7. Upon completion of backfilling, leveling and recontouring, the stockpiled topsoil will be evenly spread over the reclaimed area(s). Prior to reseeding, all disturbed surfaces will be scarified and left with a rough surface. No depressions will be left that would trap water and form ponds. All disturbed surfaces will be reseeded with a seed mixture to be recommended by the Bureau of Land Management.

Seed will be drilled on the contour to a approximate depth of one-half (1/2) inch. All seeding will be conducted after September 1 and prior to ground frost. Spring seeding will be done after the frost leaves the ground and no later than May 15. If the seeding is unsuccessful, Shenandoah Energy Inc. may be required to make subsequent seedings.

#### B. Dry Hole/Abandoned Location

- On lands administered by the Bureau of Land Management, abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: ensuring revegetation of the disturbed areas to the specifications of the Bureau of Land Management at the time of abandonment.
- All disturbed surfaces will be recontoured to the approximate natural contours and reseeded according to BLM specifications. Reclamation of the well pad and access road will be performed as soon as practical after final abandonment and reseeding operations will be performed in the fall following completion of reclamation operations.

#### 11. Surface Ownership:

The well site and proposed access road are situated on surface lands administered by:

Bureau of Land Management Vernal, Utah

#### 12. Other Information:

A. Topographic features of the area (reference Topographic Map #A)

The majority of the numerous washes and draws in the area are of a non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 8".

The flora of the area includes pinon and juniper trees, sagebrush, greasewood, four-wing saltbush, Gambel scrub oak, willow, tamarack, shadscale, indian rice grass, cheatgrass, wheatgrass, curly grass, crested wheatgrass, foxtail, Russian thistle, Kochia, and cacti.

The fauna of the area includes cattle, horses, elk, deer, coyotes, rabbits, rodents, lizards, bull snakes, rattle snakes, water snakes and horned toads. Birds of the area are ground sparrows, bluejays, bluebirds, magpies, ravens, rapters, morning doves, swallows, nighthawks, hummingbirds, and chukar.

- B. The surface ownership is federal. The surface use is grazing and petroleum production.
- C. 1. The nearest live water is the White River.
  - 2. There are no dwellings in the area. No significant archaeological, historical or cultural sites are known to be present.
  - An archaeological report will be forwarded upon completion.
  - 4. There are no reported restrictions or reservations noted on the oil and gas lease.

Shenandoah Energy Inc. Red Wash #33-19B

#### 13. Lessee's or Operator's Representative:

John Busch
Red Wash Area Operations Rep.
Shenandoah Energy Inc.
11002 East 17500 South
Vernal, Utah 84078
(435)781-4341

#### Certification:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

Ballard Petroleum LLC will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

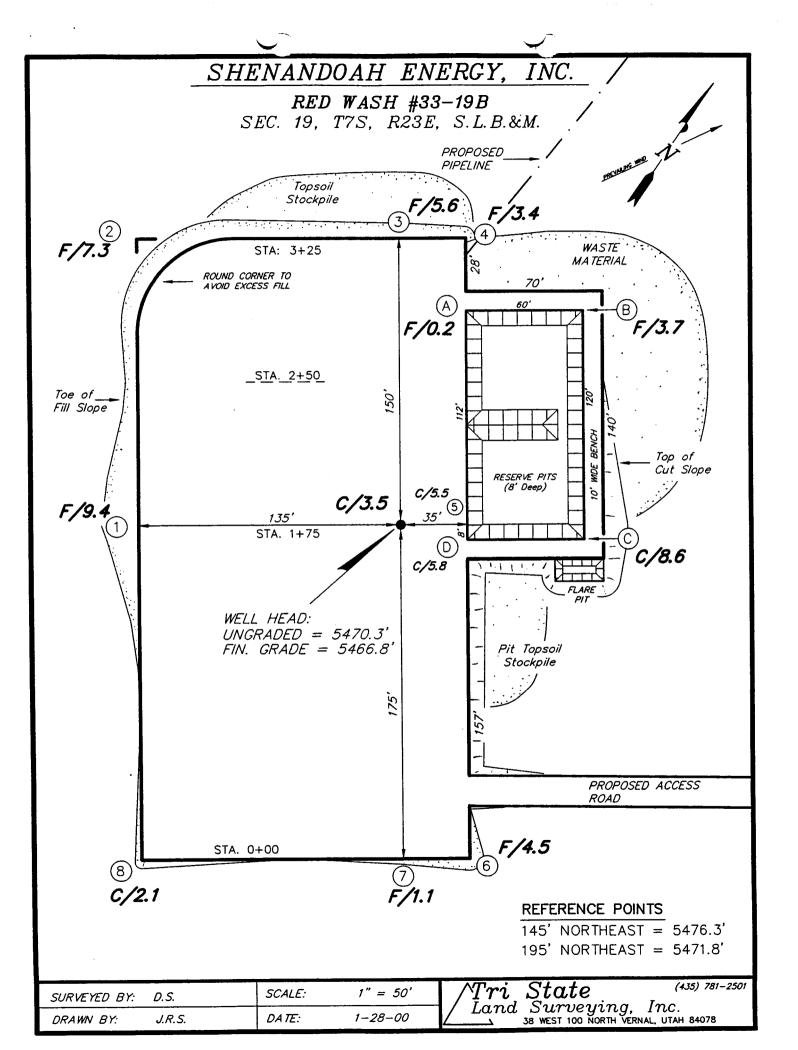
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Ballard Petroleum LLC its' contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

John Busch

Red Wash Operations Rep

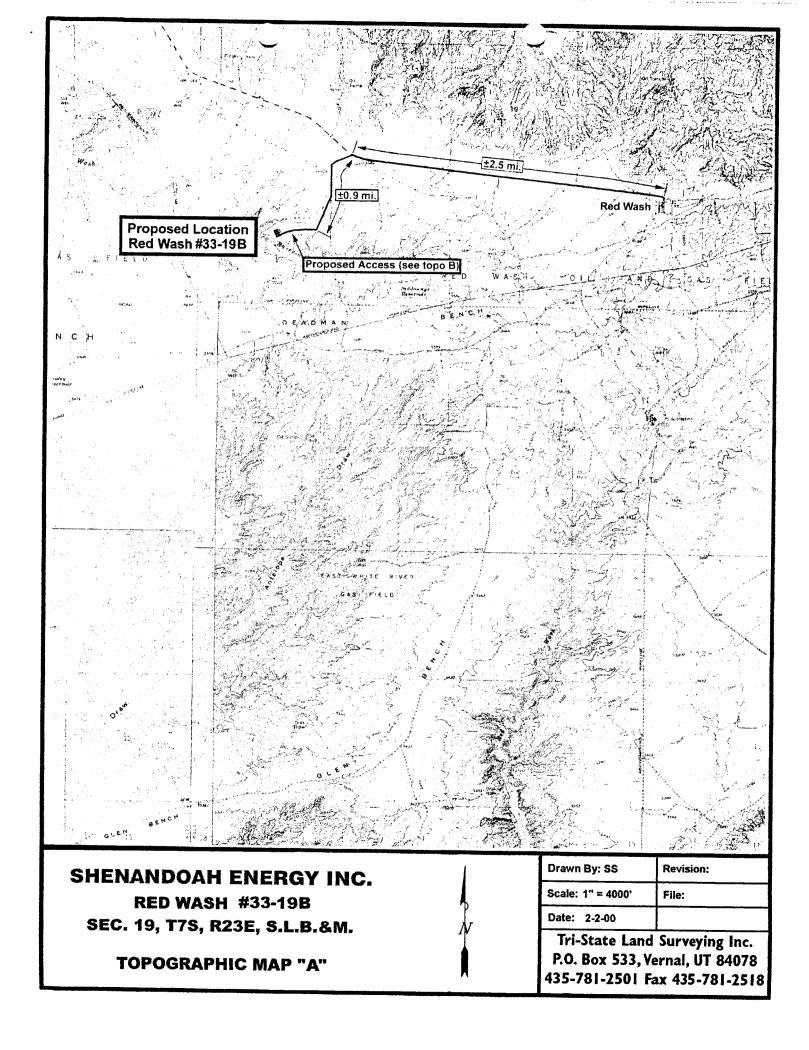
TEB 15-2000

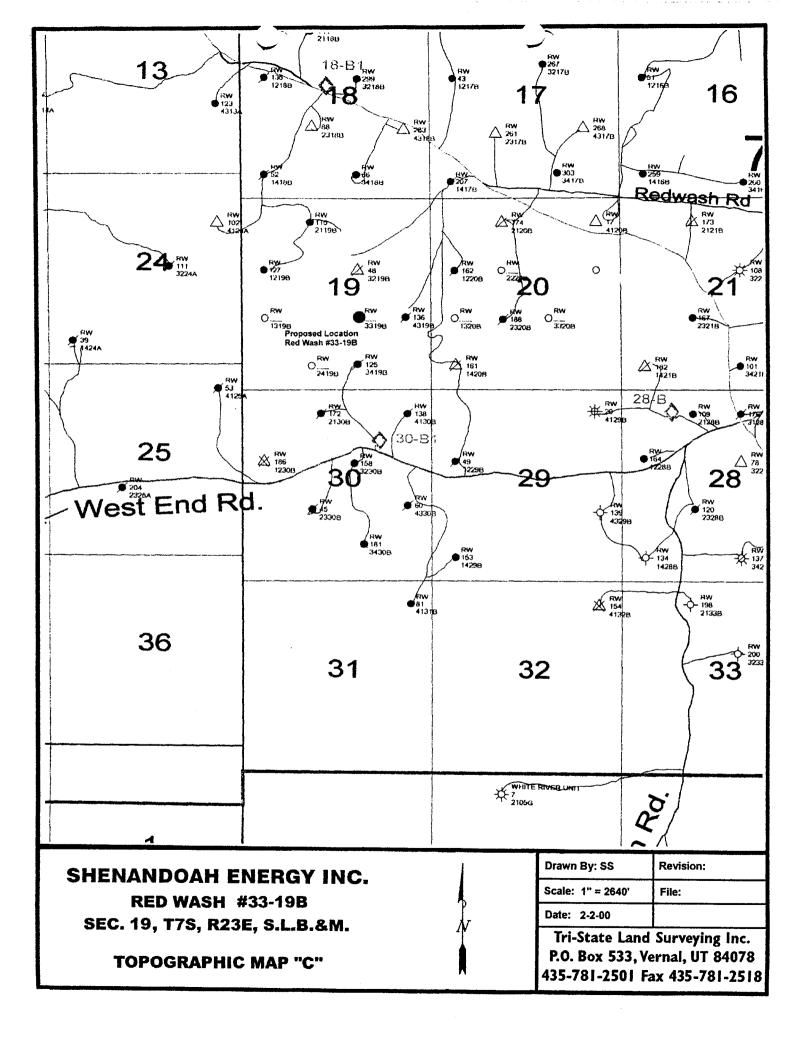
Date

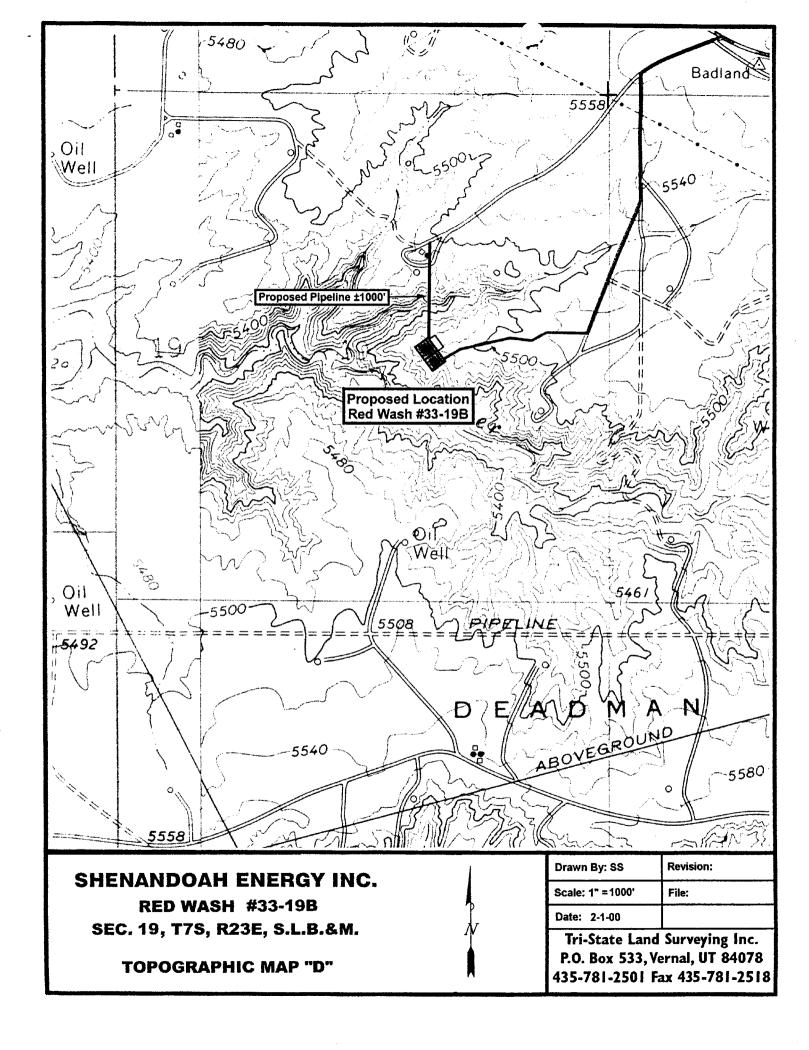


## SHENANDOAH ENERGY, CROSS SECTIONS RED WASH #33-19B 20, STA. 3+25 1" = 50' 20, 1" = 50'STA. 2+50 EXISTING FINISHED GRADE GRADE 20, WELL HOLE 1" = 50'STA. 1+75 20, 1" = 50' STA. 0+00 APPROXIMATE YARDAGES CUT = 3,450 Cu. Yds.FILL = 3,450 Cu. Yds.PIT = 1,630 Cu. Yds. 6" TOPSOIL = 1,200 Cu. Yds. Tri State Land Surveying, Inc. 38 WEST 100 NORTH VERNAL, UTAH 84078 (435) 781-2501 1" = 50' SCALE: SURVEYED BY: D.S. DRAWN BY: 1-28-00 J.R.S. DATE:

The gurss 3-93 M







## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/29/2000	API NO. ASSIGNED: 43-047-33499	
WELL NAME: RWU 33-19B  OPERATOR: SHENANDOAH ENERGY INC ( N4235 )  CONTACT: JOHN BUSCH	PHONE NUMBER: 435-781-4341	
PROPOSED LOCATION:	INSPECT LOCATN BY: / /	
NWSE 19 070S 230E SURFACE: 2606 FSL 1851 FEL	Tech Review Initials Date	
BOTTOM: 2606 FSL 1851 FEL  UINTAH  RED WASH ( 665 )	Engineering	
	Geology	
LEASE TYPE: 1-Federal	Surface	
LEASE NUMBER: U-02030 SURFACE OWNER: 1-Federal		
PROPOSED FORMATION: GRRV		
RECEIVED AND/OR REVIEWED:  Plat  Bond: Fed[1] Ind[] Sta[] Fee[]  (No. 0969  Potash (Y/N)  Noil Shale (Y/N) *190 - 5 (B)  Water Permit  (No. 43-8496  NRDCC Review (Y/N)  (Date: )  NA Fee Surf Agreement (Y/N)	LOCATION AND SITING:  R649-2-3. Unit Rcd \( \alpha\) \( \sigma\) \	-
STIPULATIONS: (1) FEDERAL APPRANT		



## Utah Oil Gas and Mining

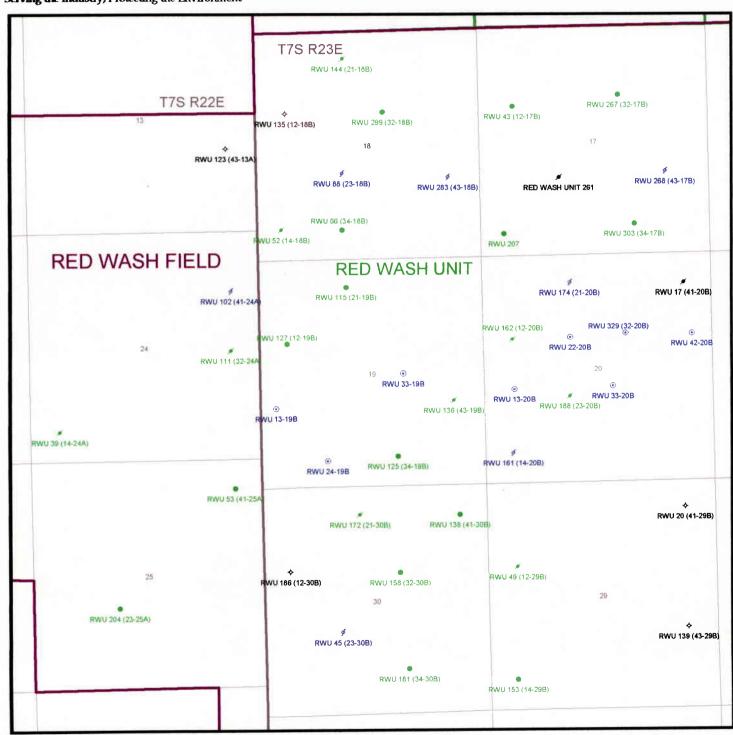
Serving the Industry, Protecting the Environment

**OPERATOR: SHENANODAH ENERGY (N4235)** 

FIELD: RED WASH (665)

SEC. 19, T 7 S, R 23 E

COUNTY: UINTAH UNIT: RED WASH



PREPARED DATE: 2-Mar-2000



MAR 0 6 2000

DIVISION OF OIL, GAS AND MINING

## SHENANDOAH ENERGY INC.

11002 East 17500 South Vernal, UT 84078 Phone: (435) 781-4300 Fax (435) 781-4329

March 2, 2000

Division of Oil, Gas & Mining 1594 W. N. Temple STE 1210 Salt Lake City, UT 84114-5801

To Whom It May Concern:

Shenandoah Energy Inc. Red Wash Unit #33-19B is an exception location due to severe topography to the South West of this location. This lease #(U-02030) is under the Red Wash Unit Agreement and all owners are committed under the Unit Agreement.

There are no additional lease owners within 460' of this proposed well. If you have any question please contact John Busch @ (435) 781-4341.

Thank you,

John Busch

Operations Representative

John Busch

## United States Department of the Interior

#### BUREAU OF LAND MANAGEMENT

**Utah State Office** P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

March 6, 2000

#### Memorandum

To:

Assistant District Manager Minerals, Vernal District

From:

Michael Coulthard, Petroleum Engineer

Subject: 2000 Plan of Development Red Wash Unit,

Uintah County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2000 within the Red Wash Unit, Uintah County, Utah.

API #	WELL NAME	1	LOCATION			
43-047-33497 RWU	13-19B	1802-FSL	0374-FWL	19	07s	23E
43-047-33498 RWU	13-20B	2143-FSL	0704-FWL	20	07S	23E
43-047-33499 RWU	33-19B	2606-FSL	1851-FEL	19	07s	23E
43-047-33500 RWU	33-20B	2210-FSL	2295-FEL	20	07s	23E

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Red Wash Unit Division of Oil Gas and Mining Agr. Sec. Chron Fluid Chron

MCoulthard:mc:3-6-0



Michael O. Leavitt Governor Kathleen Clarke Executive Director

Executive Director

Lowell P. Braxton

Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Sait Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) 801-538-7223 (TDD)

March 7, 2000

Shenandoah Energy Inc 1102 East 1750 South Vernal, Utah 84078

Re: RWU 33-19B, 2606' FSL, 1851' FEL, NW SE, Sec. 19, T. 7S, R. 23E, Uintah

Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-33499.

Sincerely,

John R. Baza

Associate Director

al

**Enclosures** 

CC:

**Uintah County Assessor** 

Bureau of Land Management, Vernal District Office

Operator:			
Well Name & Number_	RWU 33-19B		
API Number:	43-047-33499		<del></del>
Lease:	U-02030	4.00	
Location: NW SE	<b>Sec.</b> 19	T. 7S.	R. 23E.

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

- 2. Notification Requirements
  - Notify the Division within 24 hours of spudding the well. Contact Carol Daniels at (801)538-5284.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801)538-5338 or Robert Krueger at (801)538-5274.

- 3. Reporting Requirements
  - All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.
- 4. State approval of this well does not supersede the required federal approval which must be obtained prior to drilling.

Form 3160-3

*\$7* 

SUBMIT IN TRIPLICATES (Other instructions on

FORM APPROVED OMB NO. 1884-8136

July 1992)		OINILO NETUE ME		nide)	Expires: Februari 3. LEASE DESIGNATION A	7 28, 1995 NO SERVAL NO.
	DEPARTMENT OF LAI			ļ	U - 02030	
					& IF INDIAN, ALLOTTEE	NAME NAME
	TION FOR PERMI	F TO DRILL	OR DEEPEN		N/A	
TYPE OF WORK		EEPEN 🗆			7. UNIT AGRESSIONT HAD Red Wash	46
TYPE OF WELL			SINGLE WILLIAM	RE -	RECE WHEEL	WELL NO.
	AS OTHER		ZONE X ZONE		Federal	•
NAME OF OPERATOR	Taa				9. API WELL NO.	
Shenandoeh Energy	y IIIC. ENO. Phone: 435-781-434	1 11002	East 17500 South		#33-19B	
, ALIUKISS ARU I ELEFTEAR	Fax: 435-781-4329		, Utah 84078		10. FIELD AND POOL, OR	WILDCAT
LOCATION OF WELL (Rep	ort location clearly and in accordan	ce with any State requ	incontrats.*)		Red Wash	
At surface 2605.9' FSL 1850.		-	<b>PECSIVE</b>	$\circ$	VAD BOXARA OK VICE	^
At proposed prod. zone			FEB 1 5 2000		Sec. 19, T7S, R2	3E, SLEEM
A DETANCE IN MILES AND	DERECTION FROM NEAREST TOWN	N OR POST OFFICE®			Uintah	Utah
2.5 miles West of		16	NO. OF ACRES IN LEASE	17. NO. 02	ACTES ASSECTED	
IS. DESTANCE FROM PROPO LOCATION TO NEAREST			1875.8	TOTE	WELL 40	
PROPERTY OR LEASE LI (Also to messes drig, unit lie	NE, FT. 1353.3'		PROPOSED DEPTH	20.107/	YOR CARLETOOLS	
18. DESTANCE FROM PROPO TO NEARIST WELL, DET	CULTICATION*		5950'		Rotary	
OR APPLIED FOR ON THE 21. BLEVATIONS (New what	E LEASE, PT.				22 APPEOL DATE W	WILL START
5470.3'					A.S.A.P.	
23.		PROPOSED CASING	AND CEMENTING PROGRA		QUANTITY OF CEN	TENT
SIZE, OF HOLE	GRADE, SEZE OF CASENG	WEIGHT PER POOT	450'	120 ==	- Class G	
12 1/4"	K55 8 5/8" new K55 51/2" new	24# 15.5#	5950'		- Class G	
7 7/8"	K22 21/5_ IRW	15.5#				
casing will be run State of Utah requ See Onshore Orde Please be advised Shenandosh Ener conducted upon ti Bond coverage for Energy Inc. via st	er No. 1 attached. that Shenandoah Energy gy Inc. agrees to be respo	If dry, the well Inc. is consider onsible under the Bond No. 096 ded for in 43 CE	red to be the operator of the terms and conditions  9. The principal is She 7R 3104.2.	of the above of the lea	re mentioned well. se for the operation	
24.						// 2000
8300 O	L Busch John	Busch nn	Red Wash Oper. R			<u>-14-2000</u>
(This space for Feder	1 or State office was) 43.047-33	499	ATTROVAL DATE	NOTI	ce of Appr	OVAL
PERMIT NO	ses not warrant or cartify that the appl			ject lease which	would outlife the applicant t	o conduct operations there
Application approved de CORENTITIONS OF AFFI	oos act warrant or curry task the appl MOVAL, IF ANY:	wing was after ar after		-		

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ACTING Assistant Field Manager

Mineral Resources

# CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

Company/Operator: Shenandoal	h Energy, Inc.	
Well Name & Number: RWU 33-	-19B	
API Number: 43-047-33499	9	
Lease Number:U-02030		
Location: NWSE Sec. 19	T. <u>7</u> S.	R. <u>23</u> E

## NOTIFICATION REQUIREMENTS

	•	
Location Construction	-	at least forty-eight (48) hours prior to construction of location and access roads.
Location Completion	-	prior to moving on the drilling rig.
Spud Notice	-	at least twenty-four (24) hours prior to spudding the well.
Casing String and Cementing	-	at least twenty-four (24) hours prior to running casing and cementing all casing strings.
BOP and Related Equipment Tests	-	at least twenty-four (24) hours prior to initiating pressure tests.
Notice of First Production	-	within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative by the operator to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

## Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report <u>ALL</u> water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders.** Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

## 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

COA's Page 3 of <u>9</u> Well: RWU 33-19B

## Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

If conductor pipe is set it will be cemented to surface. If drive pipe is used it will be pulled prior to cementing surface casing.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the shallowest potential productive zone. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

## 4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

## Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to TOP OF CEMENT and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

### 6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours <u>prior</u> to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shutin the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b. 4).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

### 7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted following initial installation and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

COA's Page 6 of <u>9</u> Well: RWU 33-19B

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approval or notification is necessary, please contact one of the following individuals:

Wayne Bankert (435) 789-4170 Petroleum Engineer

Ed Forsman (435) 789-7077 Petroleum Engineer

Jerry Kenczka (435) 781-1190 Petroleum Engineer

BLM FAX Machine (435) 781-4410

COA's Page 7 of <u>9</u> Well: RWU 33-19B

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.

COA's Page 8 of 9 Well: RWU 33-19B

## SURFACE CONDITIONS OF APPROVAL

No construction is to occur until BLM monitors all raptor nests within ½ mile of the proposed project. By June 15 if current nesting is not present at any of the nests within ½ mile of the project construction could be authorized. After the nesting area surveys have been done, construction will be authorized for this project June 15 until February 1, 2001 if no occupied nests have been found.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: <u>Surface Operating Standards for Oil and Gas Exploration and Development, (1989).</u>

The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, and crowning (2 to 3%). Graveling or capping the roadbed will be required as necessary to provide a well constructed safe road. Prior to construction/upgrading, the proposed road surface or existing road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Should mud holes develop, they shall be filled in to prevent detours. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainage be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. When snow is removed from the road during the winter months, the snow should be pushed outside of the burrow ditches and the turn outs should be kept clear so that when the snow melts the water will be channeled away from the road.

Blading is only authorized for the construction of new access roads and maintenance of existing roads. If any additional blading is needed then Shenandoah is required to consult with BLM for authorization and receive permission before blading. No other blading along the proposed pipeline route will be authorized unless the BLM has been consulted and a written description of the proposed blading disturbance has been submitted for the project APD file.

Since there are rock exposures of the Duchesne River Formation present. A qualified Paleontologist is to be present during the construction of the well pad and access road. Shenandoah is to make the arrangements to have the construction monitorred by a qualified Paleontologist.

The reserve pit will be lined with a liner of 12 mil thickness to conserve water and prevent seepage into the sandy soils in this area. A flare pit for drilling will be built near the reserve pit. The flare line shall be at least 100 feet in length. Both pits will be located as shown in the APD on the layout diagram.

COA's Page 9 of <u>9</u> Well: RWU 33-19B

Shenandoah Energy will control noxious weeds along the right-of-way for roads, pipelines, well sites or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

Place topsoil materials at the North side of the location. Topsoil from the Reserve pit will be near the East side of the pad. Windrow the stockpiles where appropriate. Seed windrowed piles with the seed mixture listed below, immediately after windrowing, and work seed into the piles with caterpillar tractor and/ or suitable equipment.

Stockpile enough topsoil near the reserve pit so that when the reserve pit is reclaimed, it can be respread over the pit location. Spread the topsoil over the reserve pit with the seed mix listed below, and work seed into the ground with caterpillar tractor. If the reserve pit is in a cut area, then the pit should be filled in and recontoured to blend with the original contours prior to reseeding.

Fourwing Saltbush
Shadscale
Needle and Thread
Western Wheatgrass

Atriplex canescens
Atriplex confertifolia
Stipa comata
Agropyron smithii

4 lbs/acre
3 lbs/acre
2 lbs/acre

All poundages are in pure live seed. This seed mixture should also be used for final abandonment.

# UNITED STATES DARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

N/A

5. Lease Designation and Serial No.

U-02030

6. If Indian, Allottee or Tribe Name

#### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir

Use "APPLICATION FOR PERMIT--" for such proposals

0-02030

SUBM	7. If Unit or CA, Agreement Designation	
l. Type of Well		RED WASH UNIT
Oil Gas  X Well Well Other		8. Well Name and No.  RWU 33-19B
2. Name of Operator CHEVRON U.S.A. PRODUCTION COMPANY		9. API Well No.
3. Address and Telephone No		43-047-33499
11002 E. 17500 S. VERNAL, UT 84078-8526	(801) 781-4300	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		RED WASH - GREEN RIVER
2606' FSL, 1851' FEL, NW SE, SECTION 19, T7S, R	223E SLBM	11. County or Parish, State UINTAH, UTAH
CHECK APPROPRIATE I	BOX(s) TO INDICATE NATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
,	Recompletion .	New Construction
X Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	X Other FIRST PRODUCTION	Dispose Water
		(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
<ol> <li>Describe Proposed or Completed Operations (Clearly state all pertinent ogive subsurface locations and measured and true vertical depths for all m</li> </ol>	details, and give pertinent dates, including estimated date of starting any proposed work. If tarkers and zones pertinent to this work)	well is directionally drilled,

THIS WELL COMMENCED PRODUCTION JUNE 5, 2000.



JUL 0 5 2000

DIVISION OF OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct. Signed D. C. BEAMAN Beam Beaman	Title	COMPUTER SYSTEMS OPERATOR	Date	06/30/00
(This space for Federal or State office use)			<u> </u>	
Approved by:	Title		Date	
Conditions of approval, if any			-	
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make representations as to any matter within its jurisdiction.	e to any de	epartment or agency of the United States any false, fictitious or fraudu	lent statements or	

#### **UNITED STATES** ARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED Budget Bureau No. 1004-0135

U-02030

Expires: March 31, 1993

5. Lease Designation and Serial No.

SUNDRY NOTICES	AND REPORTS	ON WELLS
----------------	-------------	----------

SUBMIT IN TRIPLICATE

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir Use "APPLICATION FOR PERMIT--" for such proposals

THIS WELL WAS SPUD APRIL 28, 2000. DRILL 470' 12 1/4" HOLE. RUN 461' 8 5/\*' K55 24# CASING.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1.	Oil Gas		RED WASH UNIT
	Oil Gas  Well Well Other		8. Well Name and No.  RWU 33-19B
2.	Name of Operator		- RWU 33-19B
	CHEVRON U.S.A. PRODUCTION COMPANY		9. API Well No.
3.	Address and Telephone No		43-047-33499
	11002 E. 17500 S. VERNAL, UT 84078-8526	(801) 781-4300	10. Field and Pool, or Exploratory Area
4.	Location of Well (Footage, Sec., T., R., M., or Survey Description)		RED WASH - GREEN RIVER
			11. County or Parish, State
	2606' FSL, 1851' FEL, NW SE, SECTION 19, T7S, R	23E SLBM	UINTAH, UTAH
12.	CHECK APPROPRIATE	BOX(s) TO INDICATE NATURE OF NOTICE, REPORT,	OR OTHER DATA
	TYPE OF SUBMISSION	TYPE OF ACTION	
	Notice of Intent	Abandonment	Change of Plans
		Recompletion	New Construction
	X Subsequent Report	Plugging Back	Non-Routine Fracturing
		Casing Repair	Water Shut-Off
	Final Abandonment Notice	Altering Casing	Conversion to Injection
		X Other SPUD	Dispose Water
			Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
13.	Describe Proposed or Completed Operations (Clearly state all pertinent of give subsurface locations and measured and true vertical depths for all materials and true vertical depths for all materials are subsurfaced in the subsurface of the subsur	letails, and give pertinent dates, including estimated date of starting any proposed work. If we arkers and zones pertinent to this work)	ll is directionally drilled,

FIGURED

JUL 0 5 2000

**DIVISION OF** OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct. Signed D. C. BEAMAN Construction Beamoure	Title	COMPUTER SYSTEMS OPERATOR	Date	06/30/00		
(This space for Federal or State office use)						
Approved by:			Date	Date		
Conditions of approval, if any						
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make representations as to any matter within its jurisdiction.	e to any d	epartment or agency of the United States any false, fictitious or fraudule	nt statements o	r		

Form 3160-4 (November 1983) (formerly 9-330)	DEPAR	UNITED STA TMF OF T J OF LAND MAN	HE INTERIO		1IT IN	DUPLICATE (Se er in		ıreau No.	
						reverse side)	5. LEASE DESI U-02030	GNATION A	ND SERIAL NO.
	WELL COMPLET	ON OR RECOM	PLETION REPO	ORT AND LO	G *		6. IF INDIAN,	LLOTTEE	OR TRIBE NAME
la. TYPE OF WEI	WEL	GAS WELL	DRY	Other			7 UNIT AGREE		1E
NEW WELL X	WORK DER	PLUC BACI		Other			8. FARM OR LE	EASE NAME	
2. NAME OF OPERA Shenandoah E					<u>.</u>		9. WELL NO RWU #33	-19B	·
	RATOR '500 South, Vernal, L ELL (Report location clearly					IVED	10. FIELD AND Red Wash		ILDCAT
At surface 260	6' FSL, 1851' FEL		any State requirements,	DIV JUL	ISIO	2000 N OF	11. SEC.,T., R.,	M., OR BLO	CK AND SURVEY
At top rod. interval i	Same	e 		OIL, GAS	S AN	ID MINING	NW//SE//	S19-T75	S-R23E, SLBM
			14. PERMIT NO 43-047-33			E ISSUED 1-2000	12. COUNTY PARISH Uintah	OR I	3. STATE
15. DATE SPUDDED 04-28-2000	16. DATE T.D. REAC. 05-11-2000	ÆD	17. DATE COMPI 04-19-2000	L. (Ready to prod.)		18. ELEVATIONS 5586' KBE, 5	(DF, RKB, RT, GR, ETC.	)* 19. EI	EV. CASINGHEAD
20. TOTAL DEPTH, MD & 5800'		CK T.D., MD & TVD	22. IF MULTIP HOW MAI			23. INTERVALS DRILLED BY	ROTARY TOOLS	<del></del> ,	CABLE TOOLS
					6 - 5 c Reso	7/-00 mance CBL/VD	27	SUR WAS WEL	VEY MADE  L CORED  No
28. CASING SIZE	WEIGHT, LB./FT.	DEPTH SET	CASING RECORD (MD)	) (Report all strings HOLE SIZE	set in we	(II) CEMENTIN	G RECORD	I AM	OUNT PULLED
8 5/8"	24	461'		12¼"			G w/ 2% CaCl		N/a
5%"	15.5	5800		7 7/8"	<u> </u>		ad, 360 sxs 50/50 Fail cement	<del> </del>	N/a
SIZE	TOP (MD) B	LINER RECORD OTTOM (MD) S	ACKS CEMENT*	SCREEN (MD)		30. SIZE	TUBING RE DEPTH SET (MD)		CKER SET (MD)
				· · · · · · · · · · · · · · · · · · ·	-	2 7/8"	5771'		none
	ORD (Interval, size and numb	•		32. DEPTH IN			ACTURE, CEMENT SQU		
5558'-5566' 5576'-5578' 5582'-5584'	Ait	shots 4 SPF, 120°	phasing	DEPTHIN	IERVA	L (MD)	AMOUNT AND KIND No stin	ulation	AL USED
5699'-5710'									
33.*									
DATE FIRST PRODUCTION	N PRODUCTI	ON METHOD (Flowing,		AODUCTION  and type of pump)			WELL STA	TUS (Produc	ing or
06-05-2000	Pumping						<i>shut-in)</i> produci		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OILBBL.		GAS-MCF.	WATER-BBL.		-OIL RATIO
06-15-2000 FLOW. TUBING PRESS.	24 CASING PRESSURE	n/a CALCULATED	OIL-BBL.	34 G	AS-MC	n/a F W	O ATERBBL		scf/bbl Y-API (CORR.)
n/a	n/a	24-HOUR RATE>		1		1			29
Sold	S (Sold, used for fuel, vented, i	IC.)					TEST WITNESSED M.E. Alexande	BY	
35. LIST OF ATTACHME	NTS								
36. I hereby certify that the SIGNED	foregoing and attached information of the large	tion is complete and corr	ect as determined from a		ict Ma	ınager	DATE	July 1	2, 2000
		(See Instruction	ns and Spaces fo						

State of	Utah			
Division	of Oil,	Gas	and	Mining

<b>OPERATOR:</b>
ADDRESS:

Shenandoah Energy, Inc.

11002 East 17500 South Vernal, Utah 84078-8526

(801	11781	-4300	

OPERATOR ACCT. No. \_\_\_\_\_

#### **ENTITY ACTION FORM - FORM 6**

Action Code	Current Entity No.	New Entity No.	API Number	Well Name	QQ	SC	TP	RG	County	Spud Date	Effective Date
В	99999	<b>∌</b> 5670	43-047-33499	Red Wash Unit 33-19B	NW SE	19	78	23E	Uintah	4/28/00	7-17-00
	COMMENT	S: Ø00		ity added.					•		
											1
WELL 2	COMMENT	S:									
	:										
WELL 3	COMMENT	S:	•								
WELL 4	COMMENT	rs:	<u> </u>				1	1 1	* *************************************	-1	+
WELL 5	COMMENT	rs:		1		<u></u>	<del></del>			1	1
)											
	A - Establisi B - Add new C - Re-assi D - Re-assi E - Other (e	h new entity fo v well to existing gn well from or gn well from or explain in comn	ne existing entity to ments section)	well only) unit well) o another existing entity					0	gnature  ffice Manager. 07/	05/00 Date:
(3/89)						· · • • • • • • • • • • • • • • • • • •			Pl	hone No. <u>(801) 78</u>	1-4306
(3103)					Ł			غسا أدد معاد			

DEMONDER OF Cil, C. G.A. D. h... in co

#### UNITED STATES ATMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No 1004-0135

5			• • • • •	•
Expires	March	31.	1993	

5. Lease Designation and Serial No. SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir 6. If Indian, Allottee or Tribe Name Use "APPLICATION FOR PERMIT--" for such proposals N/A 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE Type of Well **RED WASH UNIT** Well Well Well Name and No Name of Operator SHENANDOAH ENERGY INC Address and Telephone No 11002 E. 17500 S. VERNAL, UT 84078-8526 (801) 781-4341 Location of Well (Footage, Sec., T., R., M., or Survey Description) **RED WASH - GREEN RIVER** 11. County or Parish, State SEE BELOW UINTAH, UTAH 17 CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonmeni X Change of Plans Recompletion New Construction Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Notice Altering Casing Conversion to Injection Other COMPOST Dispose Water (Note) Report results of multiple completion on Well Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work) Shenandoah Energy Inc. requests approval to use compost from the Shenandoah Red Wash compost project to be placed 2"-4" thick on the new roads to the following RW #44-19B, RW #24-19B, RW #13-19B, RW #44-20B, RW #24-20B, RW #42-19B, RW #33-19B, and RW #33-20B - Sec. 19 & 20, T7S, R23E, SLB&M. Accepted by the Federal Approval of this Utah Division of RECEIVED Action is Necessary Oil, Gas and Mining COPY SENT TO OPERATOR JUL 2 5 2000 Date: **DIVISION OF** Reconnected limits of LIB TPH and EC 2/2 inmhos/ OIL, GAS AND MINING I hereby certify that the foregoing is true and correct Signed JOHN BUSCH **OPERATIONS REPRESENTATIVE** 7/20/00 (This space for Federal or State office use) Title Approved by: Date Conditions of approval, if any Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Form 3160-5 (June 1990)

#### **UNITED STATES** TMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No. 1004-0135 Expires: March 31, 1993

#### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir Use "APPLICATION FOR PERMIT--" for such proposals

5. If Indian, Allottee or Tribe Name

5. Lease Designation and Serial No.

		N/A
SUBM	7. If Unit or CA, Agreement Designation	
Type of Well		
Oil Gas		
Well Well X Other		8. Weil Name and No.
2. Name of Operator		
SHENANDOAH ENERGY INC.		9. API Well No.
Address and Telephone No.		
11002 E. 17500 S. VERNAL, UT 84078-8526	(801) 781-	1300 10. Field and Pool, or Exploratory Area
Location of Well (Footage, Sec., T., R., M., or Survey Description)		
		11. County or Parish, State
		UINTAH, UTAH
2. CHECK APPROPRIATE I	BOX(s) TO INDICATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF AC	TION
X Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	X Other Confidential	Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Shenandoah Energy Inc. would like to have the attached wells be kept confidential.



(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

OCT 1 1 2000

**DIVISION OF** OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct. Signed JOHN BUSCH	Title	Operations Supervisor	Date	10/9/00			
(This space for Federal or State office use)  Approved by: Conditions of approval, if any	Title		Date				
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.							

	<del></del>				T	1	1
Red Wash	2220B**	SE NW	20	78	23E	43-047-33491	
Red Wash	4220B*	SE NE	20	78	23E	43-047-33490	
Red Wash	1320B*	NW SW	20	78	23E	43-047-33498	
Red Wash	3320B++	NW SE	20	78	23E	43-047-33500	
Red Wash	2221B	SE NW	21	78	23E	43-047-33522	
Red Wash	2419B	SE SW	19	78	23E	43-047-33492	
Red Wash	4419B	SE SE	19	78	23E	43-047-33524	
Wonsits Valley	6W-16-8-21	SE NW	16	88	21E	43-047-33527	
Gypsum Hills	10W-19-8-21	NW SE	19	88	21E	43-047-33528	
Wonsits Valley	16W-9-8-21	SE SE	9	88	21E	43-047-33529	
Wonsits Valley	6G-16-8-21	SE NW	16	88	21E	43-047-33564	
Gypsum Hills	10G-19-8-21	NW SE	19	88	21E	43-047-33566	
Wonsits Valley	16G-9-8-21	SE SE	9	88	21E	43-047-33565	
Red Wash	2420B	SE SW	20	78	23E	43-047-33523	
Red Wash	1319B	NW SW	19	78	23E	43-047-33497	
Red Wash	3319B	NW SE	19	78	23E	43-047-33499	
Red Wash	4420B	SE SE	20	78	23E	43-047-33525	
Red Wash	4219B	SE NE	19	78	23E	43-047-33556	
Red Wash	2219B	SE NW	19	78	23E	43-047-33559	
Red Wash	4224A	NE SE	24	78	22E	43-047-33569	
Red Wash	3424A	SW SE	24	78	22E	43-047 <del>-33567</del>	33568
Red Wash	2324A	NE SW	24	78	22E	43-047 <del>-33568</del>	
Red Wash	2125A	NE NW	25	78	22E	43-047-33576	,
Red Wash	4125A	NE NE	25	78	22E	43-047-33579	
Red Wash	1119B	NW NW	19	78	23E	43-047-33552	
Red Wash	3119B	NW NE	19	78	23E	43-047-33555	
Red Wash	1120B	NW NW	20	78	23E	43-047-33553	
Red Wash	2418B	SE SW	18	7\$	23E	43-047-33554	
Red Wash	3413A	SW SE	13	78	22E	43-047-33593	
Red Wash	2124A	NE NW	24	78	22E	43-047-33592	
Red Wash	1224A	SW NW	24	78	22E	43-047-33591	
Red Wash	1125A	NW NW	25	78	22E	43-047-33574	
Red Wash	1325A	NW SW	25	78	22E	43-047-33575	
Red Wash	3125A	NW NE	25	78	22E	43-047-33577	
Red Wash	3325A	NW SE	25	78	22E	43-047-33578	
Red Wash	4225A	SE NE	25	78	22E	43-047-33580	
Red Wash	4418B	SE SE	18	78	23E	43-047-33594	
Red Wash	1129B	NW NW	29	78	23E	43-047-33590	
Wonsits Valley	9G-2-8-21	NE SE	2	88	21E	43-047-33647	
Wonsits Valley	9W-2-8-21	NE SE	2	88	21E	43-047-33648	
Wonsits Valley	16G-2-8-21	SE SE	2	88	21E	43-047-33646	
Wonsits Valley	16W-2-8-21	SE SE	2	88	21E	43-047-33645	
Wonsits Valley	15W-9-8-21	SW SE	9	88	21E	43-047-33661	
Wonsits Valley	15G-9-8-21	SW SE	9	88	21E	43-047-33662	
Wonsits Valley	2W-10-8-21	NW NE	10	88	21E	43-047-33655	
							IVED
Wonsits Valley	2G-10-8-21	NW NE	10	<b>8</b> S	21E	1540-047-3000D	

OCT 1 1 2000

Wonsits Valley	12G-10-8-21	NW SW	10	88	21E	43-047-33660
Wonsits Valley	4W-11-8-21	NW NW	11	88	21E	43-047-33657
Wonsits Valley	4G-11-8-21	NW NW	11	88	21E	43-047-33658
Wonsits Valley	2W-16-8-21	NW NE	16	88	21E	43-047-33246
Wonsits Valley	2G-16-8-21	NW NE	16	88	21E	43-047-33247
Womsits Valley	12W-16-8-21	NW SW	16	88	21E	43-047-33649
Wonsit Valley	12G-16-8-21	NW SW	16	88	21E	43-047-33650
Red Wash	33U-19B	NW SE	19	7\$	23E	43-047-33654
Red Wash	14-27A	swsw	27	78	22E	43-047-33150
Wonsits Valley	WV 1W-18-8-22	NE NE	18	88	22E	43-047-33294
Wonsits Valley	WV 11W-8-8-22	NE SW	8	88	22E	43-047-33295
Wonsits Valley	WV 5W-13-8-21	SW NW	13	88	21E	43-047-33221
Wonsits Valley	WV 9W-13-8-21	NE SE	13	88	22E	43-047-33223
Wonsits Valley	WV 7W-13-8-21	SW NE	13	88	22E	43-047-33270
Wonsits Valley	WV 3W-8-8-22	NE NW	8	88	22E	43-047-33493
Wonsits Valley	WV 5W-7-8-22	SW NW	7	88	22E	43-047-33494
Wonsits Valley	WV 1W-14-8-21	NE NE	14	88	21E	43-047-33220
Wonsits Valley	WV 11W-7-8-22	NE SW	7	88	22E	43-047-33495
Wonsits Valley	WV 13W-7-8-22	SW SW	7	88	22E	43-047-33496
Wonsits Valley	WV 7W-7-8-22	SW NE	7	88	22E	43-047-33503
Wonsits Valley	WV 9W-12-8-21	NE SE	12	88	21E	43-047-33534
Nonsits Valley	WV 3W-7-8-22	NE NW	7	88	22E	43-047-33502
Vonsits Valley	WV 1W-13-8-21	NE NE	13	88	21E	43-047-33532
Vonsits Valley	WV 11W-12-8-21	NE SW	12	88	21E	43-047-33535
Vonsits Valley	WV 1W-7-8-22	NE NE	7	88	22E	43-047-33501
Vonsits Valley Vonsits Valley	WV 1W-12-8-21	NE NE	12	88	21E	43-047-33531
Vonsits Valley	Fed 9W-8-8-22	NE SE	8	88	22E	43-047-33515
Vonsits Valley	WV 13W-12-8-21	SW SW	12	88	21E	43-047-33537
Vonsits Valley	WV 3W-18-8-22	NE NW	18	88	22E	43-047-33533
Vonsits Valley	WV 11W-13-8-21	NE SW	13	88	21E	43-047-33536
Vonsits Valley	Fed 15W-8-8-22	SW SE	8	88	22E	43-047-33517
Gypsum Hills	GH 1W-32-8-21	NE NE	32	88	21E	43-047-33570
Sypsum Hills	GH 7W-32-8-21	SW NE	32	88	21E	43-047-33573
Wonsits Valley	WV 3W-24-8-21	NE NW	24	88	21E	43-047-33605
Wonsits Valley Gypsum Hills	GH 5W-32-8-21	SW NW	32	88	21E	43-047-33572
Gypsum Hills	GH 3W-32-8-21	NE NW	32	88	21E	43-047-33571
Wonsits Valley	WV 13W-18-8-22	SW SW	18	88	22E	43-047-33538
Wonsits Valley	WV 15W-13-8-21	SW SE	13	88	21E	43-047-33608
Wonsits Valley	WV 3W-13-8-21	NE NW	13	88	21E	43-047-33603
Wonsits Valley	WV 13W-13-8-21	SW SW	13	88	21E	43-047-33606
Wonsits Valley	WV 1W-21-8-21	NE NE	21	88	21E	43-047-33602
Wonsits Valley	WV 9W-14-8-21	NE SE	14	88	21E	43-047-33269
Glen Bench	GB 5W-17-8-22	SW NW	17	88	22E	43-047-33514
Wonsits Valley	WV 1W-24-8-21	NE NE	24	88	21E	43-047-33613
	WV 3W-22-8-21	NE NW	22	88	21E	43-047-33604
Wonsits Valley	GB 9W-18-8-22	NE SE	18	88	22E	43-047-33516
Glen Bench	WV 13W-14-8-21	SW SW	14	88	21E	43-047-33607
Wonsits Valley	GB 3W-17-8-22	NE NW	17	8S	21E	49 (47-23519
Glen Bench	WV 11W-18-8-22		18	88	22E	48-047-33613 43-047-33626
Wonsits Valley	144 1144-10-6-22	NE SW	10		_ 445	1 40-047-00020

OCT 1 1 2000

Glen Bench	GB 3W-22-8-22	NE NW	22	88	22E	43-047-33652
Glen Bench	GB 12W-30-8-22	NW SW	30	88	22E	43-047-33670
White River	WR 13W-3-8-22	SW SW	3	88	22E	43-047-33651

## **RECEIVED**

OCT 1 1 2000

DIVISION OF OIL, GAS AND MINING

### Page 1 of 1

# CONFIDENTIAL

Form 3160-5 (August 1999)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an

FORM APPROVED
OMB No. 1004-0135
Evnires November 30, 200

•	
5. Lease Serial No.	· · · · · · · · · · · · · · · · · · ·
U- <b>02030</b>	

abandoned well. Use Form 3160-3 (APD) for such proposals				6. If Indian, Allottee or Tribe Name		
SUBMIT	N TRIPLICATE-Other	instructions on revers	eside	7. If Unit 8920007	or CA Agreement, Name and No	
1. Type of Well:  X Oil Well Gas Well	Other	CUNFIL	JENTIAL	RWU 33		
	NDOAH ENERGY INC CT: J.T. CONLEY DIVISIO jconley@shenandoahenergy	.com		9. API We 4304733	499	
3a. Address 11002 EAST VERNAL, U	17500 SOUTH T 84078	3b. Phone No. (include TEL: 435.781.430 FAX: 435.781.432	0 EXT: 301	10. Field at	nd Pool, or Exploratory ASH	
Sec 19 T7S R23E NWSI				UINTAI		
12. CHECK AP	PROPRIATE BOX(ES) TO	O INDICATE NATUR	E OF NOTICE, REI	PORT, OF	R OTHER DATA	
TYPE OF SUBMISSION		TYP	E OF ACTION			
Notice of Intent	Acidize	Deepen	Production (Star	rt/Resume)	☐ Water Shut-off	
Subsequent Report	☐ Alter Casing ☐ Casing Repair	▼ Fracture Treat ■ New Construction	Reclamation Recomplete		☐ Well Integrity	
Final Abandonment Notice	Change Plans Convert to Injection	☐ Plug and Abandon☐ Plug Back	☐ Temporarily Ab☐ Water Disposal	oandon		

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give the subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of involved operations. If the operation results in multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Workover from 09/16/00 to 09/26/00.

MIRU, POOH with prod equip. Set RBP at 5620' and land deadstring at 5482'. Sand frac the Gx3/Gy2 zones with 29,000# sand in 12,800 gals at ATR = 5.5 BPM, ATP = 2200 psig. Swab load water back to cleanup well. Cleanout frac sand and POOH with tools. RIH with pro equip and place back on rod pump.

RECEIVED

DEC 19 2000

DIVISION OF OIL, GAS AND MINING

Name (Printed/Typed) JT Convey	Title	DISTRICT MA	NIGEN
Signature Ix Clubs	Date	12-22-00	
THIS SPACE FOR FEDERAL	LOR	STATE OFFICE USE	
Approved by		Title	Date
"Conditions of approval, if any, are altached." Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to thos rights in the subject lease Which would entitle the applicant to conduct operations theron.		Office	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any States any false, fictitious or fraudulent statements or representations as to any matter w			any department or agency of the United

ELECTRONIC SUBMISSION #2219 VERIFIED BY THE BLM WELL INFORMATION SYSTEM FOR SHENANDOAH ENERGY INC SENT TO THE VERNAL FIELD OFFICE



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**REGION 8** 999 18TH STREET - SUITE 300 **DENVER, CO 80202-2466** http://www.epa.gov/region08

JAN | 0 2002

Ref: 8P-W-GW

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Scott M. Webb Regulatory Coordinator Shenandoah Energy Inc. 475 17th Street, Suite #1000 Denver, CO 80202

Accepted by the **Utah Division of** Oil, Gas and Mining FOR RECORD ONLY

RE: UNDERGROUND INJECTION CONTROL (UIC)

Final Permit Red Wash Unit

RWU #33-19B \*

EPA Permit No. UT2903-04611

Uintah County, Utah

Dear Mr. Webb:

Enclosed is a Final Underground Injection Control Permit for the proposed enhanced oil recovery well, the Red Wash Unit (RWU) #33-19B, Red Wash Field, Uintah County, Utah. A Statement of Basis is also enclosed which discusses the development of the Permit.

The public comment period ended on December 20, 2001. were no comments from either the general public or the land owners who may be affected by the proposed action. We also did not receive any comments from you concerning our actions.

Following conversion, but prior to injection, Shenandoah Energy Inc. (Shenandoah) must fulfill Permit condition Part II, Section C. 1., "Prior to Commencing Injection" and have submitted to the EPA for review and approval, the following:

> All conversion is complete and the permittee has submitted a completed Well Rework Record (EPA Form 7520-12 in Appendix B; A current wellbore diagram will be included; and

- (2) the pore pressure has been determined; and
- the permittee has submitted for review and (3) approval Part I (Internal) of the mechanical integrity test (MIT); EPA form enclosed with current MIT Guidance No. 39.

Please be aware that Shenandoah does not have authorization to begin injection into the RWU #33-19B well until the items listed above have been approved by the EPA and Shenandoah has received watten authorization to begin injection from the EPA. It is Shenandoah's responsibility to be familiar with, and to comply with, all conditions contained in this Permit.

If you have any questions on this action please contact Mr. Dan Jackson at 303.312.6155. Also direct all correspondence and/or reports to ATTENTION: Dan Jackson at MAIL CODE 8P-W-GW. Thank you for your continued cooperation.

Kerrigan G. Clough Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

Enclosures:

Final Permit

Statement of Basis MIT Guidance No. 39

Mr. D. Floyd Wopsock, Chairman Uintah & Ouray Business Committee Ute Indian Tribe

> Ms. Elaine Willie, Environmental Coordinator Ute Indian Tribe

Mr. Norman Cambridge BIA - Uintah & Ouray Agency

Mr. Jerry Kenczka BLM - Vernal District Office

Mr. Gilbert Hunt State of Utah Natural Resources Division of Oil, Gas, and Mining

#### FINAL

## STATEMENT OF BASIS

SHENANDOAH ENERGY INC.

RED WASH UNIT (RWU) #33-19B
RED WASH FIELD

EPA PERMIT NUMBER: UT2903-04611

CONTACT:

D. Edwin Hogle (8P-W-GW)
U. S. Environmental Protection Agency
999 18th Street, Suite 300
Denver, Colorado 80202-2466
Telephone: 303.312.6137

#### DESCRIPTION OF FACILITY AND BACKGROUND INFORMATION:

On January 9, 2001, Shenandoah Energy Inc. (SEI) made application for the conversion of a producing oil well from the Lower Green River Formation to a Class II enhanced oil recovery (EOR) injection well and back into the same producing Lower Green River zones so that SEI may continue to economically produce oil from their Red Wash Unit Field. The primary water source for injection will be produced/recycled water from the Red Wash Waterflood and the White River #11-4 well (user Code #49, Serial #287) and the Water Supply Well #1 (user Code #49, Serial #2153). These two wells have been approved by the State of Utah as supply water wells for additional water floods as needed. The water at the inlet of the pump plant for the waterflood is tested on a regular basis. Based on the test dated 12/31/99 the injected water has a specific gravity of 1.005 gm/cc, pH of 9.0 and TDS of 5,689 mg/l.

The area covered by the application is in the Red Wash Unit Field which lies under federal jurisdiction for purposes of UIC program implementation for the following proposed well:

#### Red Wash Unit #33-19B

NW/4 SE/4 Section 19, Township 7 South, Range 23 East Uintah County, Utah

The permittee has sent notices to all surface landowners and interested parties within one-quarter (1/4) mile of the proposed injection well.

The earliest sampling of produced water from the RWU #33-19B Green River Formation was June, 2000. Total Dissolved Solids (TDS) were measured at 2,160 mg/l, pH 7.63 and specific gravity of 1.008. Subsequent samples were obtained (05/07/01) as the waterflood project progressed and resulted in a noticeable increase in TDS (11,000 mg/l) due to the variance in properties of the produced water. Water quality analysis from the Green River Formation in this area varies between 3,400 mg/l to 50,000 mg/l and the Green River Formation in this area was exempted as a USDW in 1982 as part of the delegation of Utah's Class II UIC program [see 40 CFR § 147.2251(c)(2),re:"Aquifer Exemption Process" dated June 16, 1982].

Shenandoah has submitted all required information and data necessary for permit issuance in accordance with 40 CFR Parts 144, 146 and 147, and a Final Permit has been prepared.

The Permit will be issued for the operating life of the well from the effective date of this permit; therefore, no reapplication will be necessary unless the Permit is terminated for reasonable cause (40 CFR 144.39, 144.40, and 144.41). However, the permit will be reviewed every five (5) years.

This Statement of Basis (SOB) gives the derivation of the site specific Permit conditions and reasons for them, on the basis of the direct implementation regulations promulgated for the Uintah-Ouray Indian Tribal lands in the State of Utah, under the Underground Injection Control (UIC) program provisions for the Safe Drinking Water Act (SDWA). The referenced sections and conditions correspond to the sections and conditions in Permit No. UT2903-04611. The general Permit conditions for which the content is mandatory and not subject to site specific differences (based on 40 CFR Parts 144, 146 and 147), are not included in the discussion.

## PART II, Section A WELL CONVERSION REQUIREMENTS

#### Casing and Cementing

(Condition 1)

The well was drilled, cased and cemented during April, 2000, by Shenandoah and completed as an oil well. This well will continue to produce until the Permit is approved and conversion

to a Class II injection well is complete. Casing and cementing details were submitted with the Permit application and construction is as follows:

- (1) Surface casing (9-5/8 inch) is set in a 12-1/4 inch hole to a depth of 461 feet kelly bushing (KB). The casing is secured with 320 sacks (sxs) Class "C" cement which was circulated to the surface, isolating the casing from the wellbore.
- (2) Production casing (5-1/2 inch) is set in an 7-7/8 inch hole to a depth of 5800 feet. This casing is secured with 310 sxs Hi-Fill Lead and 360 sxs 50/50 Pozmix tail up to a depth of 3240 feet, Top of Cement (TOC), per Cement Bond Log (CBL). Plugged back total depth (PBTD) is 5775 feet.

# UPON RE-ENTRY OF THIS PRODUCING OIL WELL, THE CONVERSION TO AN ENHANCED OIL RECOVERY WELL WILL BE AS FOLLOWS:

- (1) MIRUSU, unseat pump, POOH w/rods and pump.
- (2) RIH with bit and scraper and clean out to 5775' (PBTD). This will clean up scale and fill which may be in well.
- (3) <u>Determine formation fluid pore pressure, static bottom-</u> hole pressure, prior to setting tubing and packer.
- (4) TIH w/2-7/8" tubing and injection retrievable packer to approximately 5510'. Circulate corrosion inhibitor or packer fluid in the tubing-casing annulus and set packer no more than 100' above top perforations (5558').
- (5) With EPA inspector or other authorized personnel present, test well for mechanical integrity (MIT), with pressure chart, if passed successfully, place well on injection status and wait upon written approval from EPA to start injection.

# NOTE: MIT TEST METHODS AND CRITERIA ARE TO FOLLOW CURRENT UIC GUIDANCE.

The construction and conversion of this well complies with the UIC requirements and is incorporated into the Permit. Report of water encountered during the drilling of the RWU #33-19B indicates there was no observed fresh water zones. USDWs in the Uinta Formation are protected by cement and confining zones above the injection zones (5558'-5710').

Injection Formation: The Green River Formation is of variable lithology consisting of alternate shales, and lenticular and discontinuous sediments of varied permeability, deposited in a The Green River Formation primarily lacustrine environment. beneath the Red Wash, Walker Hollow, White River, Gypsum Hills, and Wonsits Valley oil fields has been classified as an exempted aguifer. Water quality analyses from the Green River Formation in the Red Wash-Wonsits Valley area, collected for an aquifer study in 1982, by the State of Utah Natural Resources and Energy Water Rights Department, show that the total dissolved solids (TDS) content varies from 3,400 mg/l to 50,000 mg/l. The Green River Formation in the above oil fields was exempted as a USDW in 1982 as part of the delegation of Utah's Class II UIC program delegation [see 40 CFR §147.2251(c)(2), re: "Aquifer Exemption Process" dated June 16, 1982]. For this well, the top of the Green River Formation is ±3078 feet measured depth (MD) below ground level. The entire Green River Formation has been exempted from protection as a USDW.

Vinta Formation: The overlying formation is the Vinta Formation which extends from surface to £3078' and in this area consists of variegated sequences of mudstone, shales, siltstones and sandstones. This section is characterized by few developed sand bodies. These sand bodies generally are discontinuous and are not subject to direct recharge (low yielding). Waters of less than 10,000 mg/l total dissolved solids (TDS) may be present in these sand lenses of the Uinta Formation in this area and may be considered USDWs. The well construction and plugging requirements of this Permit are adequate to protect any USDWs that may be present in the Uinta Formation. Additionally, it is not considered reasonable to expect injected waters to migrate the ±2478' upward through the Upper Green River to enter the Uinta Formation.

#### Tubing and Packer Specifications

(Condition 2)

The 2-7/8 inch injection tubing information submitted by the applicant is incorporated into the Permit and shall be binding on the permittee. The packer will be set at a depth of approximately 5510 feet KB, or no more than 100 feet above the top perforations (5558').

(Condition 3)

For the purposes of taking tubing and tubing/long string casing annulus pressure measurements, the EPA is requiring that the permittee install ½ inch fittings or equivalent quick disconnect fittings, with cut-off valves at the well head on the tubing, and on the tubing/casing annulus (for attachment of pressure gauges). EPA is further requiring the permittee to install a sampling tap on the line to the injection well and a flow meter that will be used to measure cumulative volumes of injected fluid. The permittee shall be required to maintain these devices in good operating condition.

#### Formation Testing

(Condition 4)

The permittee is required to determine the injection zone fluid pore pressure (static bottom-hole pressure) prior to setting injection packer and commencing injection operations.

#### PART II, Section B CORRECTIVE ACTION

The applicant submitted the required 1/4-mile Area of Review (AOR) information with the Permit application. The subject well, RWU #33-19B, was drilled and completed according to the State of Utah requirements as to preclude uphole contamination from either oil or Class II enhanced recovery injection fluid. The **producing** oil well, #125 (34-19B), the two (2) temporarily abandoned wells RWU 48 (32-19B) and RWU 136 (43-19B) are the only wells within the one-quarter mile AOP. There are no wells in the AOR operating over the fracture of the injection formation.

An EPA analysis of the RWU #33-19B confining zone (5432' to 5498') has identified at a minimum a continuous eighteen (18) foot interval of at least 80% bond index cement bond through or significantly proximate to this zone. Therefore, it has been determined that cement in this well provides an effective barrier to significant upward movement of fluids through vertical channels adjacent to the wellbore, the permittee is not required to take any corrective action before the effective date of this Permit.

#### PART II, Section C WELL OPERATION

#### Prior To Commencing Injection

(Condition 1)

Injection for the RWU #33-19B will not commence until the permittee has fulfilled all applicable conditions of the Permit

and has received written authorization from the Director as to the following:

- (1) The permittee has determined the injection zone fluid pore pressure; and
- (2) a successfully passed mechanical integrity pressure test (MIT), Part I (Internal) has been performed and witnessed according to the current guidelines discussed in the permit; and
- (3) submitted a Well Rework Record (EPA Form 7520-12) with current schematic following conversion; and
- (4) a separate written authorization to inject will be given subsequent to the EPA review and approval of (1), (2), and (3) above.

#### Mechanical Integrity

(Condition 2)

A tubing/casing annulus pressure test must be conducted, at least once every five (5) years (active injection wells) to demonstrate continued tubing, packer, and casing integrity by using an EPA approved method.

#### Injection Interval

(Condition 3)

Injection will be limited to the gross Green River Formation, being 5498' to 5800' (TD) in this well. The permittee may find it necessary to perforate additional intervals within the above gross interval. These additional perforations may be added later and reported on EPA Form 7520-12.

The confining zone above the Green River Formation injection interval consists of 66' (5432'- 5498') of dolomitic shales with interbedded tight mudstones and carbonates with an occasional thin siltstone and tight sandstone stringers which act as an isolation barrier for the accumulation of oil and for the waterflood. An additional 2354' of intervening strata lies between the top of the confining zone at 5432' and the top pf the Green River Formation at 3078'. The intervening strata consists of tightly interbedded shales, carbonate mudstones, siltstones and sandy limestones. Analysis of the Cement Bond Log/Gamma Ray (CBL/GR) has determined that the annulus cement in the RWU #33-19B well provides an effective barrier to significant upward movement of fluids through vertical channels adjacent to the wellbore.

Maximum injection pressure (MIP); the estimated injection pressure gradient is based on January 1998 step-rate (SRT) data from several Red Wash Unit wells. The Technical Director of the EPA Enforcement Program, approved (April 6, 1998) the use of a 0.81 psi/ft. fracture gradient in the calculation of maximum surface injection. The original owner/operator of the Permit, Chevron U.S.A. Production Company, requested a Minor Modification, increasing the maximum injection pressure for the RWU #283 (43-18B) and any future permitted wells within the Red Wash Unit. Using this value, a theoretical modified maximum allowable surface injection pressure (Pm), for this well, has been performed and approved by the EPA as follows:

Pm = maximum pressure at the wellhead

1.005 = specific gravity of the injected fluid

0.81 = face fracture gradient, psig

5558' = depth to top perforations

0.433 = density of injectate

Pm = [0.81 - 0.433 (1.005)] 5558 = 2085 psig

Until such time as the permittee demonstrates, through a step-rate injectivity test (SRT), that the fracture gradient is other than 0.81 psig/ft, the RWU #33-19B shall be operated at a surface injection pressure no greater than 2085 psig. Permit provisions have been made that allows the Director to increase or decrease the injection pressure based upon the test results and/or other parameters reflecting actual injection operations.

#### Injection Volume Limitation

(Condition 5)

There is no limitation on the number of barrels of water per day (BWPD) that may be injected into the RWU #33-19B, provided that in no case shall injection pressure exceed that limit shown in Part II, Section C. 4., of this Permit.

#### Injection Fluid Limitation.

(Condition 6)

Injection fluids are limited to those which are identified in 40 CFR § 144.6. (b) (2) as fluids used for enhanced recovery of oil and/or natural gas. The permittee shall provide a listing of the source of injected fluids on an annual basis as required by the Permit. Injection of any hazardous waste as identified by EPA under 40 CFR § 261.3 is prohibited.

# PART II, Section D MONITORING, RECORDKEEPING AND REPORTING OF RESULTS

#### Injection Well Monitoring Program

(Condition 1)

The permittee is required to monitor water quality of the injected fluids at annual intervals for total dissolved solids, pH, specific conductivity, and specific gravity. Any time there is a change in the source of injection fluid, a new water quality analysis is required.

To assure that no problem goes undetected, the EPA requires that the permittee monitor this location on a <u>weekly basis</u>. Any observations of surface leakage will require that the operator suspend injection operations in the RWU #33-19B until the noncompliance has been corrected, and approved in writing by the Director.

All pertinent details of the weekly inspections (flow rate, injection pressure, annulus pressure, and cumulative volume) must be recorded on a monthly basis.

The permittee shall maintain copies (or originals) of all pertinent records at the office of:

#### Shenandoah Energy Inc.

475 17th Street, Suite 1000 Denver, Colorado.

#### PART II, Section E PLUGGING AND ABANDONMENT

#### Plugging and Abandonment Plan

(Condition 1)

The plugging and abandonment plan submitted by the applicant, consists of five (5) plugs and is incorporated into the permit under **Appendix C of the Permit**. This plan has been reviewed and approved by the EPA. It is consistent with UIC requirements:

NOTE: CEMENT PLUGS ARE TO BE SEPARATED BY
BENTONITE MUD OR A 9.6 PPG PLUGGING GEL

## PART II, Section F FINANCIAL RESPONSIBILITY

## Demonstration of Financial Responsibility

(Condition 1)

Shenandoah has chosen to demonstrate financial responsibility through a Surety Performance Bond Rider in the amount of \$1,980,000, \$18,000 per well to cover the cost of plugging and abandoning of this well and 110 other wells. Shenandoah has also submitted an accompanying Standby Trust Agreement that has been reviewed and approved by the EPA.

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#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18<sup>TH</sup> STREET - SUITE 300
DENVER, CO 80202-2466
http://www.epa.gov/region08

## UNDERGROUND INJECTION CONTROL PROGRAM

#### FINAL PERMIT

Class II Enhanced Oil Recovery Well

EPA Permit No. UT2903-04611

Well Name: Red Wash Unit #33-19B

Field Name: Red Wash

County & State: Uintah, Utah

issued to:

Shenandoah Energy Inc. 475 17th Street, Suite #1000 Denver, CO 80202

Date Prepared: January 2002

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#### PART I. AUTHORIZATION TO CONVERT AND OPERATE

Pursuant to the Underground Injection Control Regulations of the U. S. Environmental Protection Agency codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 146, and 147,

#### Shenandoah Energy Inc.

475 17th Street, Suite #1000 Denver, CO 80202

is hereby authorized to convert and operate an active Lower Green River Formation oil well to a Class II enhanced oil recovery injection well, injecting into the same producing zones and well commonly known as:

#### Red Wash Unit (RWU) #33-19B

NW/4 SE/4 Section 19, Township 7 South, Range 23 East Uintah County, Utah.

Injection shall be for the purpose of enhanced oil recovery so that Shenandoah Energy Inc. (SEI) may continue to economically produce oil from their Red Wash Field in accordance with conditions set forth herein. Injection between the outermost casing protecting underground sources of drinking water (USDWs) and the wellbore is prohibited. If the well is not converted within one (1) year from the effective date of this Permit, the Permit shall expire as provided by Part II, Section A. 6.

Injection activities shall not commence until the operator has fulfilled all applicable conditions of this Permit and has received written authorization to inject from the Director.
"Prior to Commencing Injection" requirements are set forth in Part II, Section C. 1., of this Permit.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (40 CFR) and are regulations that are in effect on the date that this Permit becomes effective.

This Permit consists of a total of 33 pages and includes all items listed in the Table of Contents. Further, it is based upon representations made by the permittee and on other information contained in the administrative record. Any information submitted by the permittee found to be incorrect may be cause for

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modification or termination of the Permit and/or may subject the permittee to formal enforcement action. <u>It is the responsibility of the permittee to read, understand, and carryout all provisions of this Permit</u>.

This Permit and the authorization to operate are issued for the operating life of the well, unless terminated (Part III, Section B), or except upon automatic expiration due to prolonged postponement of conversion (Part II, Section A. 6.). The Permit will be reviewed by EPA at least every five (5) years to determine whether action under 40 CFR § 144.36 (a) is warranted. The Permit will expire upon delegation of primary enforcement responsibility for the UIC Program to the State of Utah, Division of Oil, Gas, and Mining, or the Uintah-Ouray Indian Tribal Government, unless either the State or the Indian Tribal Government has adequate authority, and choose, to adopt and enforce this Permit as a State Permit or Tribal Government Permit.

Issued **JAN | 0 2002** 

Kerrigan G. Clough

Assistant Regional Administrator Office of Partnerships and Regulatory Assistance

\* NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

#### PART II. SPECIFIC PERMIT CONDITIONS

#### A. WELL CONVERSION REQUIREMENTS

- 1. Casing and Cementing. The conversion details submitted with the application are hereby incorporated into this permit as Appendix A, and shall be binding on the permittee. Cement bonds between the wellbore and casing are as follows: (1): 1st stage cement extends from the base of the 5-1/2 inch production casing (5800') up to an estimated top of 3240 feet kelly bushing (KB) as calculated by a Cement Bond Log (CBL); and (2): cement extends from the base of the 9-5/8 inch surface casing, set at 461 feet, up to the surface.
- 2. <u>Tubing and Packer Specifications</u>. A tubing of two and seven-eighths (2-7/8) inches diameter shall be utilized with a packer placed at a depth of approximately 5510 feet kelly bushing (KB). The permittee is required to set the packer at a distance of no more than 100 feet above the top perforations (5558'). Injection between the outer-most casing protecting underground sources of drinking water (USDWs) and the well bore is prohibited.
- 3. <u>Monitoring Devices</u>. The operator shall provide and maintain in good operating condition:
  - (a) a tap on the suction line, for the purpose of obtaining representative samples of the injection fluids;
  - (b) two (2), one-half (½) inch Female Iron Pipe (FIP) fittings, isolated by plug or globe valves, and located: 1) at the wellhead on the tubing; and 2) on the tubing/casing annulus (for attachment of pressure gauges). The gauges shall be designed to operate at a certified accuracy of at least ninety-five (95) percent, throughout the range of anticipated injection pressures; and
  - (c) a flow meter that will be used to measure cumulative volumes of injected fluid.
- 4. Proposed Changes and Workovers. The operator shall give at least five (5) to ten (10) days notice to the Director, of any planned physical alterations or additions to the permitted well(s). Major alterations

or workovers of the permitted well shall meet all conditions as set forth in this permit. A major alteration/workover shall be considered any work performed, which affects casing, packer(s), or tubing.

Demonstration of mechanical integrity shall be performed within thirty (30) days of completion of workovers/alterations and prior to injection activities, in accordance with Part II, Section C. 2.

The permittee shall provide all records of well workovers, logging, or other test data to EPA within sixty (60) days of completion of the activity.

Appendix B contains samples of the appropriate reporting forms.

- 5. <u>Formation Testing</u>. The permittee is required to determine the injection zone fluid pore pressure (static bottom-hole pressure), prior to setting injection tubing and packer.
- Postponement of Conversion. If the well is not 6. converted to injection status within one (1) year from the effective date of this Permit, the authorization to convert and operate will automatically expire, unless the permittee requests and is granted an extension. The request shall be made to the Director in writing, and shall state the reasons for the delay in conversion/construction, and confirm the protection of all USDWs. The extension under this section may not exceed one (1) year. Once authorization to convert and operate expires under this part, the full permitting process, including opportunity for public comment, must be repeated before authorization to construct/convert and operate will be reissued. Financial responsibility shall be maintained during the period of inactivity in accordance with Part II, Section F.

#### B. CORRECTIVE ACTION

The applicant submitted the required 1/4-mile Area of Review (AOR) information with the Permit application. Within the AOR are two (2) Temporarily Abandoned Green River Formation oil wells; (1) the subject well, drilled and completed as a producing oil well according to the State of Utah requirements, and the RWU 125 (34-19B) producing oil well. These wells were constructed in such a manner as to preclude any migration of

injected fluids up hole. If any leaks are detected, the well(s) will be shut-in immediately and corrective action will be taken to restore integrity to the wellbore. Therefore, the permittee is not required to take any corrective action prior to the issuance of this Permit.

#### C. WELL OPERATION

- 1. <u>Prior to Commencing Injection</u>. Injection operations may not commence until the permittee has complied with the following:
  - (a) Conversion is complete and the permittee has submitted a Well Rework Record (Form 7520-12 in Appendix B); A current wellbore diagram will be included; and
  - (b) the permittee has determined the injection zone fluid pore pressure (static bottomhole pressure); and
  - (c) a successfully passed mechanical integrity pressure test (MIT), Part I (Internal) shall be performed with pressure chart, according to the current UIC Guidance for Conducting a Pressure Test to Determine if a Well Has Leaks in the Tubing, Casing or Packer. This guidance will be made available to the permittee when the final permit is issued.

#### 2. Mechanical Integrity Demonstration.

- (a) Notification. The Permittee shall notify the Director at least two (2) weeks prior to any required integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests (MIT), or it may be on an individual basis.
- (b) Test Methods and Criteria. Test methods and criteria are to follow current UIC Guidance for Conducting a Pressure Test to determine if a Well has leaks in the Tubing, Casing or Packer. To assure that the test pressure will detect

significant leaks and that the casing is subjected to pressure similar to that which would be applied if tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psig.

- Routine Demonstrations of Mechanical Integrity. The Permittee must demonstrate mechanical integrity by arranging and conducting a routine tubing/casing annulus pressure test at least one every five (5) years during the life of the facility and after workovers (see Part II. A. 4.). Results of the test shall be submitted (on EPA form found in Appendix B) to the Director as soon as possible but no later than sixty (60) days after the test is complete.
- (d) Loss of Mechanical Integrity. The operator is required to establish and maintain mechanical integrity [40 CFR § 144.51(q)]. If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity as defined by 40 CFR § 146.8 becomes evident during operation, the permittee shall notify the Director in accordance with Part III, Section E. 10. (c) of this permit. Furthermore, injection activities shall be terminated immediately; and operation shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and the Director gives approval to recommence injection.
- 3. <u>Injection Interval</u>. As identified in Appendix A, injection shall be limited to the gross Green River Formation, being 5558' to 5800' (TD) in this well. Additional perforations within the gross interval may be added later and reported on EPA Form 7520-12.

The confining zone above the Green River Formation injection interval consists of 66' (5432'- 5498') of shale, calcareous in part with occasional thin

siltstone and tight sandstone stringers which acts as an isolation barrier for the accumulation of oil and for the waterflood. An additional 2354' of intervening strata lies between the top of the confining zone at 5432' and the top of the Green River Formation at 3078'.

#### 4. <u>Injection Pressure Limitation</u>.

- (a) Injection pressure, measured at the surface, shall not exceed an amount that the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs.
- The exact pressure limit may be increased or (b) decreased by the Director in order to ensure that the requirements in paragraph (a) are fulfilled. In order to determine an exact pressure limit, the permittee may conduct a step rate injection test or other authorized well test(s) that will serve to determine the fracture pressure of the injection zone. Test procedures shall be preapproved in writing by the Director. The Director will specify in writing, to the permittee, any increase or decrease to the injection pressure based upon the test results and/or other parameters reflecting actual injection operations. Until such time that this demonstration and approval is made, the injection pressure, measured at the surface shall not exceed 2085 psig (maximum injection pressure).
- 5. <u>Injection Volume Limitation</u>. There is no limitation on the number of barrels of water per day (BWPD) that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Part II, Section C. 4. (b) of this Permit.
- 6. <u>Injection Fluid Limitation</u>. The permittee shall not inject any hazardous substances, as defined by 40 CFR part 261, at any time during the operation of the facility; and further, no substances other than those produced brines from oil and/or gas production and source water for water flooding in the Red Wash field.
- 7. Annular Fluid. The annulus between the tubing and the casing shall be filled with fresh water treated with a corrosion inhibitor to prevent corrosion. A diesel

freeze blanket may be circulated from surface to below frost level at completion to prevent freezing and possible equipment failure during winter months, or other fluid as approved, in writing, by the Director.

### D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

- 1. <u>Injection Well Monitoring Program</u>. Samples and measurements shall be representative of the monitored activity. The permittee shall utilize the applicable analytical methods described in Table 1 of 40 CFR § 136.3, or in Appendix III of 40 CFR Part 261, or in certain circumstances, by other methods that have been approved by the EPA Administrator. Monitoring shall consist of:
  - (a) Analysis of the injected fluids, performed:
    - (i) Annually for Total Dissolved Solids, pH, Specific Conductivity, and Specific Gravity, from the common facility; however, if injection is maintained from more than one well from each common facility, then only one annual analysis is required for that facility.
    - (ii) Whenever there is a change in the source of injection fluids. A comprehensive water analysis shall be submitted to the Director within thirty (30) days of any change in injection fluids.
  - (b) In addition to the weekly well site inspection for surface leaks; observations of flow rate, injection pressure, annulus pressure, and cumulative volume shall be conducted monthly. All observations shall be observed and/or measured at approximately the same time. Observations of each shall be recorded monthly.
- 2. <u>Monitoring Information</u>. Records of any monitoring activity required under this permit shall include:
  - (a) The date, exact place, the time of sampling or field measurements;

- (b) The name of the individual(s) who performed the sampling or measurements;
- (c) The exact sampling method(s) used to take samples;
- (d) The date(s) laboratory analyses were performed;
- (e) The name of the individual(s) who performed the analyses;
- (f) The analytical techniques or methods used by laboratory personnel; and
- (q) The results of such analyses.

#### 3. Recordkeeping.

- (a) The permittee shall retain records concerning:
  - (i) the nature and composition of all injected fluids until three (3) years after the completion of plugging and abandonment which has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix C, and is consistent with 40 CFR § 146.10.
  - (ii) all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit for a period of at least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.
- (b) The permittee shall continue to retain such records after the retention period specified in paragraphs (a) (i) and (a) (ii) unless he delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The permittee shall maintain copies (or originals) of all pertinent records at the office of:

Shenandoah Energy Inc. 475 17th Street, Suite 1000 Denver, Colorado. Annual Report to the Director summarizing the results of the monitoring required by Part II, Section D. 1.

(a) and (b) of this permit. Copies of all monthly records on injected fluids, and any major changes in characteristics or sources of injected fluid shall be included in the Annual Report.

The first Annual Report shall cover the period from the effective date of the Permit through December 31, of that year. Subsequently, the Annual Report shall cover the period from January 1 through December 31, and shall be submitted by February 15 of the following year. Appendix B contains Form 7520-11 which may be copied and used to submit the annual summary of monitoring.

#### E. PLUGGING AND ABANDONMENT

- 1. <u>Notice of Plugging and Abandonment</u>. The permittee shall notify the Director forty-five (45) days before conversion, or abandonment of the well.
- Plugging and Abandonment Plan. The permittee shall 2. plug and abandon the well as provided in the Plugging and Abandonment Plan, Appendix C. This plan incorporates information supplied by the permittee and may contain a clarification by the EPA. The EPA reserves the right to change the manner in which the well will be plugged if the well is modified during its permitted life or if the well is not made consistent with EPA requirements for construction and mechanical integrity. The Director may require the permittee to update the estimated plugging cost periodically. estimates, two (2), shall be based on an independent service company's cost for current EPA approved P&A operations, not an "in-house" cost estimate.
- 3. Cessation of Injection Activities. After a cessation of operations of two (2) years [40 CFR § 144.52 (a) (6)], the permittee shall plug and abandon the well in accordance with the Plugging and Abandonment Plan, unless the permittee:
  - (a) has provided notice to the Director; and
  - (b) has demonstrated that the well will be used in the future; and

- (c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.
- 4. Plugging and Abandonment Report. Within sixty (60) days after plugging the well, the permittee shall submit a report on Form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the plugging operation and the report shall consist of either: (1) a statement that the well was plugged in accordance with the plan; or (2) where actual plugging differed from the plan, a statement that specifies the different procedures followed.

#### F. FINANCIAL RESPONSIBILITY

- 1. Demonstration of Financial Responsibility. The permittee has chosen to demonstrate financial responsibility through a Surety Performance Bond in the amount of \$1,980,000, \$18,000 per well to cover the cost of plugging and abandoning 110 wells as listed under Schedule "A". Shenandoah has also submitted an accompanying Standby Trust Agreement that has been reviewed and approved by the EPA.
  - (a) The permittee shall submit financial statements and other information annually, or as required by EPA, in order to demonstrate that its financial position remains sound, and that it continues to have adequate financial resources, as determined by the EPA, to close, plug, and abandon the injection well(s) in accordance with the approved plugging and abandonment plan.
  - (b) If financial statements or other information indicate that the permittee no longer has financial resources, according to EPA criteria, to assure that the injection wells will be properly plugged and abandoned, then the permittee must make an alternate showing of financial responsibility. This showing must be acceptable to the Director and must be submitted within sixty (60) days after having been notified by EPA of the necessity for making an alternate showing of financial responsibility.

- (c) The permittee may upon his own initiative and upon written request to EPA, change the method of demonstrating financial responsibility from financial statement coverage to a financial instrument such as a bond, letter of credit, or trust fund. Any such change must be approved by the Director.
- 2. <u>Insolvency of Financial Institution</u>. In the event that an alternate demonstration of financial responsibility has been approved under (b) or (c), above, the permittee must submit an alternate demonstration of financial responsibility acceptable to the Director within sixty (60) days after either of the following events occur:
  - (a) The institution issuing the trust or financial instrument files for bankruptcy; or
  - (b) The authority of the trustee institution to act as trustee, or the authority of the institution issuing the financial instrument, is suspended or revoked.

#### PART III. GENERAL PERMIT CONDITIONS

EFFECT OF PERMIT. The permittee is allowed to engage in underground injection in accordance with the conditions of this permit. The permittee, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR, Part 142 or otherwise adversely affect the health of persons. Any underground injection activity not authorized in this permit or otherwise authorized by permit or rule is prohibited. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health, or the environment, nor does it serve as a shield to the permittee's independent obligation to comply with all UIC regulations.

#### B. PERMIT ACTIONS

- 1. Modification, Reissuance, or Termination. The Director may, for cause or upon a request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with 40 CFR §§ 124.5, 144.12, 144.39, and 144.40. Also, the permit is subject to minor modifications for cause as specified in 40 CFR § 144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.
- The Director may, for cause or upon a Conversions. 2. request from the permittee allow conversion of the well from a Class II injection well to a non-Class II well. Requests to convert the injection well from its Class II status to a non-Class II well, such as, a production well, must be made in writing to the Director. Conversion may not proceed until a permit modification indicating the conditions of the proposed conversion is received by the permittee. Conditions of the modification may include such items as, but is not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, and well specific monitoring and reporting following the conversion.
- 3. Transfers. This permit is not transferrable to any person except after notice is provided to the Director and the requirements of 40 CFR § 144.38 are complied with. The Director may require modification, or revocation and reissuance, of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the SDWA.
- 4. <u>Operator Change of Address</u>. Upon the operator's change of address, notice must be given to the following EPA office:
  - U. S. Environmental Protection Agency Region VIII, UIC Section (8P-W-GW) 999 18th Street, Suite 300 Denver, CO 80202-2466

#### C. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

#### D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR § 144.5, any information submitted to EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the permittee; and
- Information which deals with the existence, absence, or level of contaminants in drinking water.

#### E. GENERAL DUTIES AND REQUIREMENTS

- 1. <u>Duty to Comply</u>. The permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification. Such noncompliance may also be grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).
- 2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to the RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.

- 3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- 4. <u>Duty to Mitigate</u>. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.
- 5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities or similar systems, only when necessary, to achieve compliance with the conditions of this permit.
- 6. Duty to Provide Information. The permittee shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.
- 7. <u>Inspection and Entry</u>. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
  - (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
  - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- (d) Sample or monitor, at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.
- 8. Records of the Permit Application. The permittee shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.
- 9. <u>Signatory Requirements</u>. All reports or other information requested by the Director shall be signed and certified according to 40 CFR § 144.32.

#### 10. Reporting of Noncompliance.

- (a) Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) <u>Compliance Schedules</u>. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.

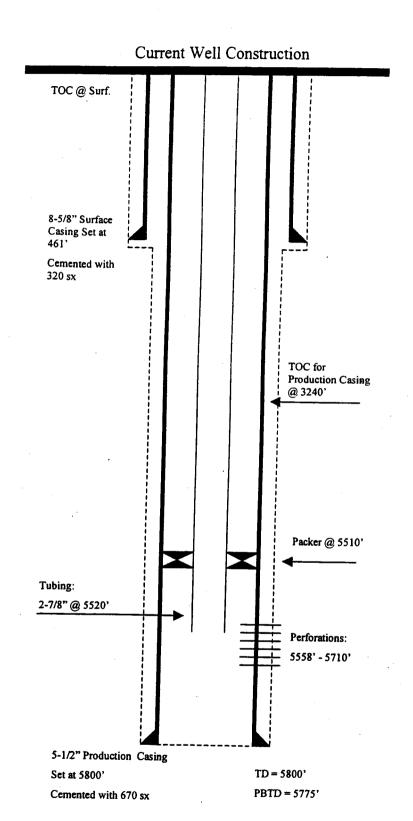
#### (c) Twenty-four Hour Reporting.

(i) The permittee shall report to the Director any noncompliance which may endanger health or the environment. Information shall be provided orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning EPA at 303.312.6155 (during normal business hours) or at 303.293-1788 (for reporting at all other times). The following information shall be included in the verbal report:

- (A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water
- (B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.
- (ii) A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- (d) Other Noncompliance. The permittee shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III, Section E. 10.(C) (ii) of this permit.
- (e) Other Information. Where the permittee becomes aware that he failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

#### APPENDIX A

(Conversion Details)



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#### APPENDIX B

### (Reporting Forms and Instructions)

1.	EPA Form 7520- 7:	APPLICATION TO TRANSFER PERMIT
2.	EPA Form 7520-10:	COMPLETION REPORT FOR BRINE DISPOSAL WELL
3.	EPA Form 7520-11:	ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT
4.	EPA Form 7520-12:	WELL REWORK RECORD
5.	EPA Form 7520-13:	PLUGGING RECORD
6.	EPA Form MIT	MECHANICAL INTEGRITY TEST

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CERTIFICATION
l certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals
immediately responsible for obtaining the information. I believe that the information is true, accurate,
and complete. I am aware that there are significant penalties for submitting false information, including
the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).
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### Mechanical Integrity Test

# Casing Annulus Pressure Mechan Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW

999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness:			Date:/		
Test conducted by:		<u>-</u>			
Others present:		·	-		
			T ED CUID	Status AC	TA IIC
Well Name:	-	<del></del>	Type: ER SWD	Status: AC	IA UC
Field: Sec:	T	— N/S R	F/W County	St	ate:
Operator:		1475 R	D / *** County		
Last MIT: /	/ Ma	ximum Allow	able Pressure:		PSIG
Is this a regularly schedu	uled test? [	Yes [	] No		
Initial test for	r permit? [	] Yes [	] No		
Test after well	rework? [	] Yes [	] No		
Well injecting du	ring test? [	] Yes [	] No If Yes, rate:		bpd
Pre-test casing/tubing annulu	s pressure:		psig		
MIT DATA TABLE	Test #1		Test #2		Test #3
TUBING	PRESS				
Initial Pressure		psig		psig	psig
End of test pressure		psig		osig	nsig
CASING / TUBING		ILUS	PRESSURE		
0 minutes		psig		osig	psig
5 minutes		psig		osig	psig
10 minutes	-	psig		psig	psig
15 minutes		psig		psig	psig
20 minutes		psig		psig	psig
25 minutes		psig		psig	psig
30 minutes		psig		psig	psig
minutes		psig		psig	psig
minutes		psig		psig	psig
RESULT	[ ] Pass	[ ]Fail	[ ] Pass [ ]F	ail [ ] Pas	ss []Fail
Does the annulus pressure bu	ild back up afte	er the test ?	[ ] Yes [ ] N		

#### APPENDIX C

#### PLUGGING & ABANDONMENT PLAN

and

#### SCHEMATIC

#### Red Wash Unit #33-19B

This plan has been reviewed and approved by the EPA. It is consistent with UIC requirements:

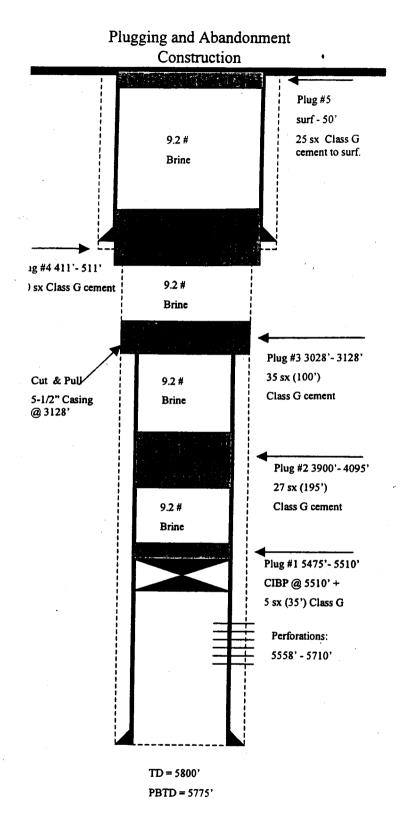
NOTE:

CEMENT PLUGS ARE TO BE SEPARATED BY BENTONITE MUD OR A 9.6 PPG PLUGGING GEL (BRINE WATER WITH A GELLING AGENT).

#### PLUGGING AND ABANDONMENT PLAN

#### RWU #33-19B

- (1) MIRU. ND WH and NU BOPE, Pull downhole equipment and clean out to PBTD, circulate hole clean.
- (2) Plug #1. Top perforations at 5558'. Set CIBP at 5510' and dump bail 35' (5 sx) Class "G" cement on top.
- (3) Plug #2. Oil shale interval 3950'-4045'. Set balanced cement plug across interval 3900'-4095.
- (4) Plug #3 Green River top at 3078'. Cut and pull 5-1/2" csg at 3128' and set balanced plug from 3028'-3128'.
- (5) Plug #4 Surface csg shoe @ 461'. Set balanced plug from 411'-511'.
- (6) Plug #5 Surface to 50'. Balanced plug.
- (7) Weld on marker and clean location



Page 33 of 33 EPA FINAL Permit No. UT2903-04611

Form 3160-5 (August 1999)

☐ Subsequent Report

☐ Final Abandonment Notice

### 'NITED STATES

### DEPAR OF THE INTERIOR BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS** 

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

5.	Lease Serial No. U-02030
6.	If Indian, Allottee or Tribe Name N/A

Do not use the abandoned we	Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.								
SUBMIT IN TR	7.	If Unit or CA/Agre	ement, Name and/or No.						
1. Type of Well  ☑ Oil Well ☐ Gas Well ☐ O	ther		8.	. Well Name and No. RWU 33-19B					
2. Name of Operator SHENANDOAH ENERGY	Contact	: DAHN CALDWELL E-Mail: dcaldwell@shenandoaher		API Well No. 43-047-33499					
3a. Address 11002 E. 17500 S. VERNAL, UT 84078	11002 E. 17500 S. Ph: 435.781.4342								
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Descript	ion)	1	1. County or Parish,	and State				
Sec 19 T7S R23E NWSE 26	06FSL 1851FEL			UINTAH COUN	ITY, UT				
12. CHECK API	PROPRIATE BOX(ES)	TO INDICATE NATURE OF N	OTICE, REP	ORT, OR OTHE	R DATA				
TYPE OF SUBMISSION		TYPE OF	ACTION						
Notice of Intent	☐ Acidize ☐ Alter Casing	☐ Deepen ☐ Fracture Treat	☐ Production ☐ Reclamation	(Start/Resume)	☐ Water Shut-Off ☐ Well Integrity				

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof.

If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones.

Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

☐ Plug Back

■ New Construction

□ Plug and Abandon

□ Recomplete

■ Water Disposal

☐ Temporarily Abandon

Proposal for conversion to Injection Well (See Attachment).

☐ Casing Repair

☐ Change Plans

Convert to Injection

Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY RECEIVED

□ Other

MAR 19 2002

DIVISION OF OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct.  Electronic Submission #10778 verified For SHENANDOAH ENE			
Name (Printed/Typed) JIM SIMONTON	Title	COMPLETION MANAGER	
Signature (Electronic Submission)	Date	03/14/2002	
THIS SPACE FOR FEDERA	AL OI	R STATE OFFICE USE	
		itle	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office	
Title 18 H S C. Section 1001 and Title 43 H S C. Section 1212 make it a crime for any pr	oerson k	nowingly and willfully to make to any dena	artment or agency of the United

\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RWU #33-19B Red Wash Field NWSE S19-T7S-R23E Uintah County, Utah API # 43-047-33499 AFE#

#### Narrative:

This well was drilled in April 2000 and completed in June of 2000. The well IP'd at 34 BOPD and 0 BWD with no gas sales. The wellbore originally consisted of perfs.in the Gx3; Gy2 and Ly2 zones and all zones are still open in the well. A recompletion in Sept.2000 consisted of sand fracing the Gx3 and Gy2 zones. The proposal to convert this well into an injection well will be performed by adding perfs.in the Lw4 zone (5668-5670') and breakdown the perfs.and initiate injection. A bottom hole pressure (BHP) survey will be conducted prior to injection along with an MIT test.

TD @ 5800' Casing Shoe @ 5775' Float Collar @ '

#### **Conversion Procedure**

- 1. MIRU completion rig. POOH with rods and pump and lay down. NU BOP's. Pull the 2-7/8" tubing. RIH with 4-3/4" bit and 5-1/2" csg.scraper and tbg. to PBTD of  $\sim$ 5740'. Circulate the hole with hot 2% KCL water and POOH with bit and scraper.
- Perforate per the Density log interval 5668-70' (Lw4) at 4 JPF using a 4" casing gun and "Prospector" charges.
- 3. RIH with ret.BP and ret.pkr.and set ret.BP at ~5690' and pkr.at ~5650' and breakdown perfs.. Establish an injection rate and pressue.
- 4. POOH with ret.BP and pkr.and RIH with injection tubulars as follows: Arrowset ret.pkr.; 1 jt; SN; rest of 2-7/8" tbg.to surface.
- 5. Set pkr.at ~5500' after circulating packer fluid.
- 6. Perform MIT test of casing to >1000# and run a BHP survey with bombs hanging at  $\sim5600'$ .
- 7. Turn well over to production department to start well injection.



INJECTION WELL	33-19B	RWU Date:	10/11/01	
OPEN PERFS	ZONE	FINAL	ACTION	COMMENTS
CURRENT	20112	INJECTION	Action	OCIVINEIVIO
	<u> </u>	ZONES		en annua.
	Eu6			
	Ev5			
				WATTING ON OK.
	Gt7			EPA APPROVAL
5558-66	Gu6			EL A AL LINOVAL
<550°	Gv5			
	Gw4			
5588 <i>-5</i> 566	Gx3	5588-5566		
5576-5578	Gy2	5576-5578		
5582-5584	Gy2	5582-5584		
		·		
	Lt7			
	Lu6			
	Lv5			
	Lv5		_	
	Lw4	5668-5670	perforate	
	Lx3			
5699-5710	Ly2	5699-5710		
	Mesa			
	Mesa			
	ITIOSE			

#### <u>ACTION</u>

- 1. Perforate Lw4, 5668-5670', and breakdown.
- 2. Equip well, hook-up, MIT, and commence injection.

1. 3HP

2. MIT > 1000 PSig 3. TOP PEUF = 5558



tar Exploration and Production Company

pendence Plaza

1050 17th Street, Suite 500 Denver, CO 80265 Tet 303 672 6900 • Fax 303 294 9632

**Denver Division** 

May 28, 2003

Division of Oil, Gas, & Mining 1594 West North Temple, Suite 1210 P. O. Box 145801 Salt Lake City, Utah 84114-5801

Attention: John Baza/Jim Thompson

#### Gentlemen:

This will serve as notice that through the internal corporate changes described below, activities formerly conducted in the name of either Shenandoah Operating Company, LLC (SOC) and/or Shenandoah Energy, Inc. (SEI) will hereafter be conducted in the name of QEP Uinta Basin, Inc.: i) the Shenandoah entities were purchased in July, 2001 by Questar Market Resources, Inc., which is a mid-level holding company for the non-utility businesses of Questar Corporation, ii) Shenandoah Operating Company, LLC has now been merged into Shenandoah Energy, Inc. (SEI), iii) Shenandoah Energy, Inc. has now been re-named QEP Uinta Basin, Inc. pursuant to a State of Delaware Amended and Restated Certificate of Incorporation, iv) the same employees will continue to be responsible for operations of the former SOC and SEI properties, both in the field and in the office. Accordingly, the change involves only an internal corporate name change and no third party change of operator is involved. Please alter your records to reflect the entity name change. Attached is a spreadsheet listing all wells affected by this change.

Should you have any questions, please call me at 303 - 308-3056.

Thelen

Yours truly,

Frank Nielsen

Division Landman

Enclosure

RECEIVED

JUN 0 2 2003

DIV. OF OIL, GAS & MINING



### United States Department of the Interior

#### **BUREAU OF LAND MANAGEMENT**

Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155

IN REPLY REFER TO UT-922

June 9, 2003

QEP Uinta Basin, Inc. 1050 17<sup>th</sup> Street, Suite 500 Denver. Colorado 80265

Re:

Red Wash Unit Uintah County, Utah

#### Gentlemen:

On May 30, 2003, we received an indenture dated February 1, 2003, whereby Shenandoah Energy, Inc. changed it name and QEP Uinta Basin, Inc. was designated as Successor Unit Operator for the Red Wash Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective June 9, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Red Wash Unit Agreement.

Your nationwide (Eastern States) oil and gas bond No. B000024 will be used to cover all operations within the Red Wash Unit.

It is requested that you notify all interested parties of the name change of unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks Chief, Branch of Fluid Minerals

**Enclosure** 

bcc: Field Manager - Vernal (w/enclosure)

SITLA

Division of Oil, Gas & Mining Minerals Adjudication Group

File - Red Wash Unit (w/enclosure)

Agr. Sec. Chron Fluid Chron

UT922:TAThompson:tt:6/9/03

#### JUL 0 7 2003

3104 (932.34)WF Nationwide Bond ESB000024

**NOTICE** 

QEP Uinta Basin, Inc. 1050 17<sup>th</sup> Street Suite 500 Denver, Colorado 80265

Oil and Gas lease

#### Name Change Recognized

Acceptable evidence has been filed in this office concerning the name change of Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated. QEP Uinta Basin, Incorporated is the surviving entity. This name change is recognized effective April 17, 2003.

Eastern States will notify the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

If you identify other leases in which the merging entity maintain an interest, please contact this office and we will appropriately document those files with a copy of this notice.

If you have any questions, please contact Bill Forbes at 703-440-1536.

Wilbert B. Forbes

Land Law Examiner

Branch of Use Authorization

Division of Resources Planning,

S/ wilbert B Forbes

Use and Protection

bc: JFO,MMS, ES RF, 930 RF, 932.34 RF, E-932: wbf:07 /07/03:440-1536/ QEP Unita Basin MFO

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Well Name and Number	OF AUTHORITY TO INJEC	API Number
See Attached List	•	ACI NUMBER
Location of Well		Field or Unit Name
Footage :	County: Wintah	Lease Designation and Number
QQ, Section, Township, Range:	State: UTAH	

URRENT OPERATOR	
Company: Shenandoah Energy Inc.	Name: Busch
Address: 11002 East 17500 South	Signature:
city Vernal stateUT zip 84078	Title: District Forem
Phone: (435) 781-4300	Date: <b>9-02-03</b>

npany: QEP Uinta Basin, Inc.	Name: _	JOHN BUSCL
ress: 11002 East 17500 South	_ Signature: _	John Bush
city Vernal state UT zip 84078	Title:	District Foreman
ne:	Date:	9-02-03

(This space for State use only)

Transfer approved by:

Title: Tech Sarles Manyan

Approval Date: 9-10-03

**RECEIVED** 

SEP 0 4 2003

DIV. OF OIL, GAS & MINING

Comments:

CAUSTEH 105-01

To promony were against.

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	Field	Footages
RED WASH UNIT 261	17	070S	230E	4304732739	5670	Federal	WI	Α	Red Wash	1785 FSL, 1843 FWL
RWU 100-A (43-21A)	21			4304715219	5670	Federal	WI	Α	Red Wash	1787 FSL, 534 FEL
RWU 102 (41-24A)	24			4304715221	5670	Federal	WI	Α	Red Wash	1360 FNL, 660 FEL
RWU 11	27	070S	230E	4304715142	5670	Federal	WI	Α	Red Wash	660 FSL, 2030 FEL
RWU 11-19B	19			4304733552	5670	Federal	WI	Α	Red Wash	618 FNL, 477 FWL
RWU 11-20B	20			4304733553	5670	Federal	WI	Α	Red Wash	761 FNL, 677 FWL
RWU 11-25A	25	070S	220E	4304733574	5670	Federal	WI	Α	Red Wash	1206 FNL, 491 FWL
RWU 11-29B	29			4304733590	5670	Federal	WI	Α	Red Wash	786 FNL, 819 FWL
RWU 11-30B	30			4304733785	5670	Federal	WI	Α	Red Wash	590 FNL, 787 FWL
RWU 12-24A	24	070S	220E	4304733591	5670	Federal	WI	Α	Red Wash	1528 FNL, 930 FWL
RWU 13-19B	19			4304733497	5670	Federal	Wi	Α	Red Wash	1802 FSL, 374 FWL
RWU 13-20B	20			4304733498	5670	Federal	WI	Α	Red Wash	2143' FSL, 704' FWL
RWU 13-25A	25			4304733575	5670	Federal	WI	Α	Red Wash	1446 FSL, 664 FWL
RWU 14 (14-13B)	13			4304715144	5670	Federal	WI	Α	Red Wash	660 FSL, 660 FWL
RWU 148 (13-22B)	22			4304715261	5670	Federal	WI	Α	Red Wash	2073 FSL, 660 FWL
RWU 150 (31-22B)	22			4304715263	5670	Federal	WI	ı	Red Wash	595 FNL, 1935 FEL
RWU 156 (23-15B)	15			4304715267	5670	Federal	WI	Α	Red Wash	2115 FSL, 1982 FWL
RWU 16 (43-28B)	28			4304716475	5670	Federal	WI	1	Red Wash	1980 FSL, 660 FEL
RWU 161 (14-20B)	20			4304715271	5670	Federal	WI	1	Red Wash	660 FSL, 678 FWL
RWU 17 (41-20B)	20			4304715146	5670	Federal	WI	Α	Red Wash	660 FNL, 660 FEL
RWU 170 (41-15B)	15			4304716495	5670	Federal	WI	l	Red Wash	660 FNL, 660 FEL
RWU 173 (21-21B)	21			4304716496	5670	Federal	WI	Α	Red Wash	660 FNL, 1980 FWL
RWU 174 (21-20B)	20	070S	230E	4304715281	5670	Federal	WI	Α	Red Wash	660 FNL, 1980 FWL
RWU 182 (14-21B)	21			4304716497	5670	Federal	WI	Α	Red Wash	629 FSL, 652 FWL
RWU 183 (33-13B)	13			4304715289	5670	Federal	WI	Α	Red Wash	1833 FSL, 2027 FEL
RWU 185 (41-1B)	14	070S	230E	4304716498	5670	Federal	WI	Α	Red Wash	747 FNL, 660 FEL
RWU 199 (43-22A)	22	070S	220E	4304715301	5670	Federal	WI	Α	Red Wash	1980 FSL, 658 FEL
RWU 2 (14-24B)	24	070S	230E	4304716472	5670	Federal	WI	Α	Red Wash	735 FSL, 790 FWL
RWU 202 (21-34A)	34	070S	220E	4304715303	5670	Federal	WI	1	Red Wash	660 FNL, 1980 FWL
RWU 213 (41-33B)	33	070S	230E	4304720060	5670	Federal	WD	A	Red Wash	660 FNL, 580 FEL
RWU 215 (43-28A)	28	070S	220E	4304730058	5670	Federal	WI	Α	Red Wash	1980' FSL, 661 FEL
RWU 216 (21-27A)	27	070S	220E	4304730103	5670	Federal	WI	Α	Red Wash	660 FNL, 1976 FWL
RWU 23 (21-23B)	23	0708	230E	4304715151	5670	Federal	Wi	Α	Red Wash	695 FNL, 2015 FWL
RWU 23-18C (97)	18	070S	240E	4304715216	5670	Federal	WI	1	Red Wash	1956 FSL, 1699 FWL
RWU 25 (23-23B)	23	070S	230E	4304716476	5670	Federal	WI	Α	Red Wash	1980 FSL, 1980 FWL
RWU 258 (34-22A)	22	070S	220E	4304730458	5670	Federal	WI	Α	Red Wash	885 FSL, 2025 FEL

RWU 263 (24-26B)	26	070S	230E	4304730518	5670 F	- ederal	WI	1	Red Wash	591 FSL, 2007 FWL
RWU 264 (31-35B)	35	070S	230E	4304730519	5670 F	-ederal	W	Α	Red Wash	687 FNL, 2025 FEL
RWU 266 (33-26B)	26	0708	230E	4304730521	5670 F	<sup>=</sup> ederal	WI	1	Red Wash	1980 FSL, 1980 FEL
RWU 268 (43-17B)	17	070S	230E	4304732980	5670 F	Federal	WI	Α	Red Wash	1924 FSL, 981 FEL
RWU 269 (13-26B)	26	070S	230E	4304730522	5670 F	Federal	WI	ı	Red Wash	2170' FSL, 670' FWL
RWU 271 (42-35B)	35	070S	230E	4304731081	5670 F	Federal	WI	1	Red Wash	1979 FNL, 660 FEL
RWU 274 (13-25B)	25	0708	230E	4304731083	5670 F	Federal	WI		Red Wash	2129 FSL, 659 FWL
RWU 275 (31-26B)	26	0708	230E	4304731077	5670 F	Federal	WI	Α	Red Wash	675 FNL, 1869 FEL
RWU 279 (11-36B)	36	0708	230E	4304731052	5670 F	Federal	WI	Α	Red Wash	659 FNL, 660 FWL
RWU 283 (43-18B)	18	070S	230E	4304732982	5670 F	Federal	WI	Α	Red Wash	1899 FSL, 708 FEL
RWU 31-19B	19	070S	230E	4304733555	5670 F	Federal	WI	Α	Red Wash	601 FNL, 1770 FEL
RWU 31-25A	25	070S	220E	4304733577	5670 F	Federal	WI	Α	Red Wash	1248 FNL, 2159 FEL
RWU 31-30B	30	070S	230E	4304733788	5670 F	Federal	W	Α	Red Wash	950 FNL, 1943 FEL
RWU 33-19B	19	070S	230E	4304733499	5670 F	Federal	WI	Α	Red Wash	2606 FSL, 1851 FEL
RWU 33-20B	20	070S	230E	4304733500	5670 F	Federal	WI	Α	Red Wash	2210 FSL, 2295 FEL
RWU 33-25A	25	0708	220E	4304733578	5670 F	Federal	WI	Α	Red Wash	1413 FSL, 1809 FEL
RWU 33-30B	30	070S	230E	4304733790	5670 F	Federal	WI	Α	Red Wash	1775 FSL, 1937 FEL
RWU 34 (23-14B)	14	0708	230E	4304715161	5670 F	Federal	WI	Α	Red Wash	1980 FSL, 1980 FWL
RWU 34-13A	13	070S	220E	4304733593	5670 F	Federal	WI	Α	Red Wash	1302 FSL, 1725 FEL
RWU 34-24A	24	070S	220E	4304733568	5670 F	Federal	WI	Α	Red Wash	1295 FSL, 2125 FEL
RWU 48 (32-19B)	19	070S	230E	4304715174	5670 F	Federal	WI	Ι.	Red Wash	1830 FNL, 1980 FEL
RWU 56 (41-28B)	28	070S	230E	4304715182	5670 F	Federal	WI	Α	Red Wash	660 FNL, 660 FEL
RWU 59 (12-24B)	24	070S	230E	4304716477	5670 F	Federal	WI	Α	Red Wash	1980 FNL, 660 FWL
RWU 6 (41-21B)	21	070S	230E	4304716482	5670 F	Federal	WI	Α	Red Wash	660' FNL, 660 FEL
RWU 61 (12-27A)	27	070S	220E	4304716478	5670 F	Federal	WI	ı	Red Wash	2034 FNL, 689 FWL
RWU 68 (41-13B)	13	070S	230E	4304716485	5670 F	Federal	WI	1 .,	Red Wash	660 FNL, 660 FEL
RWU 7 (41-27B)	27	070S	230E	4304716473	5670 I	Federal	W	1	Red Wash	567 FNL, 621 FEL
RWU 88 (23-18B)	18	070S	230E	4304715210	5670 I	Federal	WI	Α	Red Wash	1980 FSL, 1980 FWL
RWU 91 (33-22B)	22	070S	230E	4304716479	5670 I	Federal	WI	Α	Red Wash	1980 FSL, 3300 FWL
RWU 93 (43-27B)	27	070S	230E	4304716480	5670 I	Federal	W	1	Red Wash	660 FSL, 660 FEL
RWU 324 (23-16B)	16	070S	230E	4304733084	5670	State	WI	1	Red Wash	1274 FSL, 1838 FWL

#### **OPERATOR CHANGE WORKSHEET**

**ROUTING** 1. GLH 2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

#### X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:		2/1/2003
FROM: (Old Operator):	TO: ( New Ope	erator):
N4235-Shenandoah Energy Inc	N2460-QEP Uir	nta Basin Inc
11002 E 17500 S Vernal, UT 84078-8526		17500 S JT 84078-8526
Phone: (435) 781-4341	Phone: (4	135) 781-4341
CA No.	Unit:	RED WASH UNIT
WELL (C)		

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	Confic
RWU 34-13A	13	070S	220E	4304733593	5670	Federal	Wi	Α	<del> </del>
RWU 34-24A	24	070S	220E	4304733568	5670	Federal	Wi	Α	
RWU 31-25A	25	070S	220E	4304733577	5670	Federal	WI	Α	
RWU 33-25A	25	070S	220E	4304733578	5670	Federal	WI	Α	
RWU 61 (12-27A)	27	070S	220E	4304716478	5670	Federal	WI	I	
RWU 34 (23-14B)	14	070S	230E	4304715161	5670	Federal	WI	Α	
RWU 283 (43-18B)	18	070S	230E	4304732982	5670	Federal	WI	Α	<b>†</b>
RWU 31-19B	19	070S	230E	4304733555	5670	Federal	WI	Α	
RWU 33-19B	19	070S	230E	4304733499	5670	Federal	WI	Α	
RWU 48 (32-19B)	19	070S	230E	4304715174	5670	Federal	WI	i i	
RWU 33-20B	20	070S	230E	4304733500	5670	Federal	WI	Α	
RWU 6 (41-21B)	21	070S	230E	4304716482	5670	Federal	WI	Α	
RWU 59 (12-24B)	24	070S	230E	4304716477	5670	Federal	WI	Α	
RWU 269 (13-26B)	26	070S	230E	4304730522	5670	Federal	WI	1	T-
RWU 275 (31-26B)	26	070S	230E	4304731077	5670	Federal	WI	Α	
RWU 56 (41-28B)	28	070\$	230E	4304715182	5670	Federal	WI	Α	
RWU 31-30B	30	070S	230E	4304733788		Federal	WI	Α	
RWU 33-30B				4304733790		Federal	WI	Α	
RWU 271 (42-35B)	35	070S	230E	4304731081		Federal	WI	lı .	
RWU 279 (11-36B)	36	070S	230E	4304731052	5670	Federal	WI	Α	

#### **OPERATOR CHANGES DOCUMENTATION**

Enter	date	after	each	listed	item	is	comp	lete	d
-------	------	-------	------	--------	------	----	------	------	---

(R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on:

6/2/2003

(R649-8-10) Sundry or legal documentation was received from the NEW operator on: 6/2/2003

The new company was checked on the Department of Commerce, Division of Corporations Database on:

6/19/2003

Is the new operator registered in the State of Utah:

YES Business Number:

5292864-0151

If NO, the operator was contacted contacted on:

6. (R649-9-2)Waste Management Plan has been received on:	IN PLACE
7. Federal and Indian Lease Wells: The BLM and or the or operator change for all wells listed on Federal or Indian leases	
8. Federal and Indian Units: The BLM or BIA has approved the successor of unit operator f	for wells listed on: <u>7/21/2003</u>
<ol> <li>Federal and Indian Communization Agreements (         The BLM or BIA has approved the operator for all wells listed</li> </ol>	· · · · · · · · · · · · · · · · · · ·
10. Underground Injection Control ("UIC") The I for the enhanced/secondary recovery unit/project for the water d	Division has approved UIC Form 5, Transfer of Authority to Inject lisposal well(s) listed on:  9/10/2003
DATA ENTRY:	
1. Changes entered in the Oil and Gas Database on:	9/16/2003
2. Changes have been entered on the Monthly Operator Change S	Spread Sheet on: <u>9/16/2003</u>
3. Bond information entered in RBDMS on:	n/a
4. Fee wells attached to bond in RBDMS on:	n/a
STATE WELL(S) BOND VERIFICATION:  1. State well(s) covered by Bond Number:	965-003-032
FEDERAL WELL(S) BOND VERIFICATION:  1. Federal well(s) covered by Bond Number:	ESB000024
INDIAN WELL(S) BOND VERIFICATION:  1. Indian well(s) covered by Bond Number:	799446
FEE WELL(S) BOND VERIFICATION:  1. (R649-3-1) The NEW operator of any fee well(s) listed covered	by Bond Number 9 <u>65-003-033</u>
2. The FORMER operator has requested a release of liability from t The Division sent response by letter on:	their bond on: n/a n/a
LEASE INTEREST OWNER NOTIFICATION: 3. (R649-2-10) The FORMER operator of the fee wells has been co of their responsibility to notify all interest owners of this change of	
COMMENTS:	



Questar Exploration and Production Company

1571 East 1700 South Vernal, UT 84078 Tel 435 781 4097 • Fax 435 781 4066

A. M. Petrik Phone: 435-781-4092 Fax: 435-781-4066 Email: ann.petrik@questar.com

May 14, 2007

Via Certified Mail: 7006 2150 0002 4305 7947

Mr. Nathan Wiser (8ENF-UFO)
U.S. Environmental Protection Agency, Region 8
1595 Wynkoop Street
Denver, Colorado 80202-1129

RE: Mechanical Integrity Test (MIT)
for
RW 33-19B
UIC #UT2903-04611
API #43-047-33499
Location: NWSE Section 19 T7S R23E

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

Dear Mr. Wiser:

Enclosed for the subject well is the successful MIT result including the Casing or Annulus Pressure Test form and the pressure test chart. The MIT for this well is a regularly scheduled test.

If you have any questions or require additional information, I can be reached at 435-781-4092.

Sincerely,

Ann M. Petrik

Office Administrator I

RECEIVED MAY 1 7 2007

**Enclosures:** 

MIT Casing or Annulus Pressure Test Form

MIT Results Spreadsheet with Pressure Test Chart

cc: Utah Division of Oil Gas and Mining

1594 West North Temple, Suite 1210

P.O. Box 145801

Salt Lake City, Utah 84114-5801

DIV. OF OIL, GAS & MINING

U.S. Department of the Interior Bureau of Land Management Vernal District Office 170 South 500 East Vernal, Utah 84078

### Division of Oil, Gas and Mining OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

X - Operator Name Change/Merger Change of Operator (Well Sold) The operator of the well(s) listed below has changed, effective: 1/1/2007 **TO:** ( New Operator): **FROM:** (Old Operator): N2460-QEP Uinta Basin, Inc. N5085-Questar E&P Company 1050 17th St, Suite 500 1050 17th St. Suite 500 Denver, CO 80265 Denver, CO 80265 Phone: 1 (303) 672-6900 Phone: 1 (303) 672-6900 **RED WASH UNIT** CA No. Unit: WELL NAME SEC TWN RNG API NO ENTITY | LEASE TYPE | WELL WELL NO TYPE **STATUS** SEE ATTACHED LISTS OPERATOR CHANGES DOCUMENTATION Enter date after each listed item is completed 1. (R649-8-10) Sundry or legal documentation was received from the FORMER operator on: 4/19/2007 2. (R649-8-10) Sundry or legal documentation was received from the NEW operator on: 4/16/2007 3. The new company was checked on the Department of Commerce, Division of Corporations Database on: 1/31/2005 **Business Number:** 764611-0143 4a. Is the new operator registered in the State of Utah: IN PLACE 5a. (R649-9-2)Waste Management Plan has been received on: 5b. Inspections of LA PA state/fee well sites complete on: n/a 5c. Reports current for Production/Disposition & Sundries on: n/a 6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/23/2007 BIA 7. Federal and Indian Units: The BLM or BIA has approved the successor of unit operator for wells listed on: 4/23/2007 8. Federal and Indian Communization Agreements ("CA"): The BLM or BIA has approved the operator for all wells listed within a CA on: The Division has approved UIC Form 5, Transfer of Authority to 9. Underground Injection Control ("UIC") Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: **DATA ENTRY:** 1. Changes entered in the Oil and Gas Database on: 4/30/2007 and 5/15/2007 2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 4/30/2007 and 5/15/2007 3. Bond information entered in RBDMS on: 4/30/2007 and 5/15/2007 Fee/State wells attached to bond in RBDMS on: 4/30/2007 and 5/15/2007 Injection Projects to new operator in RBDMS on: 4/30/2007 and 5/15/2007 6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a **BOND VERIFICATION:** 1. Federal well(s) covered by Bond Number: ESB000024 799446 Indian well(s) covered by Bond Number: 3a. (R649-3-1) The NEW operator of any state/fee well(s) listed covered by Bond Number 965003033 3b. The **FORMER** operator has requested a release of liability from their bond on: n/a LEASE INTEREST OWNER NOTIFICATION: 4. (R649-2-10) The NEW operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a COMMENTS: THIS IS A COMPANY NAME CHANGE.

SOME WELL NAMES HAVE BEEN CHANGED AS REQUESTED

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 1 (41-26B)	RW 41-26B	NENE	26	070S	230E	4304715135	5670	Federal	OW	TA
RWU 3 (34-23B)	RW 34-23B	SWSE	23	070S	230E	4304715136	5670	Federal	OW	P
RWU 4 (41-22B)	RW 41-22B	NENE	22	070S	230E	4304715137	5670	Federal	OW	TA
RWU 5 (41-23B)	RW 41-23B	NENE	23	070S	230E	4304715138	5670	Federal	OW	P
RWU 8 (32-22B)	RW 32-22B	SWNE	22	070S	230E	4304715139	5670	Federal	OW	P
RWU 9 (43-23B)	RW 43-23B	NESE	23	070S	230E	4304715140	5670	Federal	OW	P
RWU 10 (12-23B)	RW 12-23B	SWNW	23	070S	230E	4304715141	5670	Federal	OW	TA
RWU 11	RW 34-27B	SWSE	27	070S	230E	4304715142	99996	Federal	WI	A
RWU 13 (14-22B)	RW 14-22B	SWSW	22	070S	230E	4304715143	5670	Federal	OW	TA
RW 14-13B	RW 14-13B	SWSW	13	070S	230E	4304715144	99996	Federal	WI	A
RWU 15 (32-17C)	RW 32-17C	SWNE	17	070S	240E	4304715145	5670	Federal	OW	P
RWU 17 (41-20B)	RW 41-20B	NENE	20	070S	230E	4304715146	5670	Federal	WI	A
RWU 19 (34-26B)	RW 34-26B	SWSE	26	070S	230E	4304715148	5670	Federal	GW	S
RWU 21 (32-14B)	RW 32-14B	SWNE	14	070S	230E	4304715150	5670	Federal	OW	P
RWU 23 (21-23B)	RW 21-23B	SENW	23	070S	230E	4304715151	99996	Federal	WI	A
RWU 24 (34-14B)	RW 34-14B	SWSE	14	070S	230E	4304715152	5670	Federal	OW	S
RWU 26 (23-22B)	RW 23-22B	NESW	22	070S	230E	4304715153	5670	Federal	OW	TA
RWU 27 (43-14B)	RW 43-14B	NESE	14	070S	230E	4304715154	5670	Federal	OW	TA
RWU 28 (43-22B)	RW 43-22B	NESE	22	070S	230E	4304715155	5670	Federal	OW	P
RWU 29 (32-23B)	RW 32-23B	SWNE	23	070S	230E	4304715156	5670	Federal	OW	P
RW 23-13B	RW 23-13B	NESW	13	070S	230E	4304715157	5670	Federal	GW	TA
RWU 31 (34-22B)	RW 34-22B	SWSE	22	070S	230E	4304715158	5670	Federal	OW	P
RWU 33 (14-14B)	RW 14-14B	SWSW	14	070S	230E	4304715160	5670	Federal	GW	TA
RWU 34 (23-14B)	RW 23-14B	NESW	14	070S	230E	4304715161	99996	Federal	WI	A
RW 43-13B	RW 43-13B	NESE	13	070S	230E	4304715162	5670	Federal	OW	TA
RWU 36 (32-13B)	RW 32-13B	SWNE	13	070S	230E	4304715163	5670	Federal	GW	P
RWU 38 (14-23B)	RW 14-23B	SWSW	23	070S	230E	4304715165	5670	Federal	OW	P
RWU 39 (14-24A)	RW 14-24A	SWSW	24	070S	220E	4304715166	5670	Federal	OW	TA
RWU 40 (21-24B)	RW 21-24B	NENW	24	070S	230E	4304715167	5670	Federal	OW	TA
RWU 41 (34-13B)	RW 34-13B	SWSE	13	070S	230E	4304715168	5670	Federal	OW	P
RWU 42 (21-29C)	RW 21-29C	NENW	29	070S	240E	4304715169	5670	Federal	GW	P
RWU 43 (12-17B)	RW 12-17B	SWNW	17	070S	230E	4304715170	5670	Federal	OW	P
RWU 44 (32-33C)	RW 32-33C	SWNE	33	070S	240E	4304715171	5670	Federal	GW	P
RWU 45 (23-30B)	RW 23-30B	NESW	30	070S	230E	4304715172	5670	Federal	OW	TA
RWU 46 (41-21C)	RW 41-21C	NENE	21	070S	240E	4304715173	5670	Federal	GW	TA
RWU 48 (32-19B)	RW 32-19B	SWNE	19	070S	230E	4304715174		Federal	WI	I
RWU 49 (12-29B)	RW 12-29B	SWNW	29	070S	230E	4304715175		Federal	OW	TA
RWU 50 (14-23A)	RW 14-23A	SWSW	23	070S	220E	4304715176		Federal	OW	P
RWU 52 (14-18B)	RW 14-18B	SWSW	18	070S	230E	4304715178		Federal	OW	TA
RWU 53 (41-25A)	RW 41-25A	NENE	25	070S	220E	4304715179		Federal	OW	TA
RWU 56 (41-28B)	RW 41-28B	NENE	28	070S	230E			Federal	WI	A

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 57 (12-18C)	RW 12-18C	SWNW	18	070S	240E	4304715183	5670	Federal	OW	P
RWU 63 (21-22B)	RW 21-22B	NENW	22	070S	230E	4304715186	5670	Federal	GW	TA
RWU 64 (32-27B)	RW 32-27B	SWNE	27	070S	230E	4304715187	5670	Federal	OW	TA
RWU 66 (34-18B)	RW 34-18B	SWSE	18	070S	230E	4304715189	5670	Federal	OW	P
RWU 67 (42-22B)	RW 42-22B	SENE	22	070S	230E	4304715190	5670	Federal	OW	TA
RWU 69 (21-27B)	RW 21-27B	NENW	27	070S	230E	4304715191	5670	Federal	OW	TA.
RWU 70 (23-22A)	RW 23-22A	NESW	22	070S	220E	4304715192	5670	Federal	OW	P
RWU 71 (21-18C)	RW 21-18C	NENW	18	070S	240E	4304715193	5670	Federal	OW	P
RWU 72 (23-27B)	RW 23-27B	NESW	27	070S	230E	4304715194	5670	Federal	OW	TA
RWU 74 (12-13B)	RW 12-13B	SWNW	13	070S	230E	4304715196	5670	Federal	GW	S
RWU 75 (21-26B)	RW 21-26B	NENW	26	070S	230E	4304715197	5670	Federal	OW	TA
RWU 76 (32-18C)	RW 32-18C	SWNE	18	070S	240E	4304715198	5670	Federal	GW	P
RWU 77 (21-13B)	RWU 77 (21-13B)	NENW	13	070S	230E	4304715199	5670	Federal	OW	P
RWU 78 (32-28B)	RW 32-28B	SWNE	28	070S	230E	4304715200	5670	Federal	OW	P
RWU 79 (12-27B)	RW 12-27B	SWNW	27	070S	230E	4304715201	5670	Federal	OW	TA
RWU 80 (14-27B)	RW 14-27B	swsw	27	070S	230E	4304715202	5670	Federal	OW	S
RWU 81 (41-31B)	RW 41-31B	NENE	31	070S	230E	4304715203	5670	Federal	OW	P
RWU 83 (41-27A)	RW 41-27A	NENE	27	070S	220E	4304715205	5670	Federal	OW	P
RWU 84 (44-14B)	RW 44-14B	SESE	14	070S	230E	4304715206	5670	Federal	GW	P
RWU 88 (23-18B)	RW 23-18B	NESW	18	070S	230E	4304715210	5670	Federal	WI	A
RWU 90 (43-21B)	RW 43-21B	NESE	21	070S	230E	4304715211	5670	Federal	OW	P
RWU 92 (11-23B)	RW 11-23B	NWNW	23	070S	230E	4304715212	5670	Federal	OW	TA
RWU 94 (12-22A)	RW 12-22A	SWNW	22	070S	220E	4304715213	5670	Federal	OW	P
RWU 23-18C (97)	RW 23-18C	NESW	18	070S	240E	4304715216		Federal	WI	I
RWU 99 (12-22B)	RW 12-22B	SWNW	22	070S	230E	4304715218	5670	Federal	OW	P
RWU 100-A (43-21A)	RW 43-21A	NESE	21	070S	220E	4304715219	5670	Federal	WI	A
RWU 101 (34-21B)	RW 34-21B	SWSE	21	070S	230E	4304715220	5670	Federal	OW	P
RWU 102 (41-24A)	RW 41-24A	SENE	24	070S	220E	4304715221	5670	Federal	WI	A
RWU 103 (34-15B)	RW 34-15B	SWSE	15	070S	230E	4304715222	5670	Federal	OW	P
RWU 108 (32-21B)	RW 32-21B	SWNE	21	070S	230E	4304715226	5670	Federal	OW	P
RWU 109 (21-28B)	RW 21-28B	NENW	28	070S	230E	4304715227	5670	Federal	OW	P
RWU 110 (23-23A)	RW 23-23A	NESW	23	070S	220E	4304715228	5670	Federal	OW	P
RWU 111 (32-24A)	RW 32-24A	SWNE	24	070S	220E	4304715229	5670	Federal	OW	S
RWU 112 (32-28A)	RW 32-28A	SWNE	28	070S	220E	4304715230	-	Federal	OW	S
RWU 115 (21-19B)	RW 21-19B	NENW	19	070S	230E	4304715233	-	Federal	OW	P
RWU 119 (43-29A)	RW 43-29A	NESE	29	070S	220E	4304715236	5670	Federal	OW	P
RWU 120 (23-28B)	RW 23-28B	NESW	28	070S	230E	4304715237	5670	Federal	OW	TA
RW 13-13B	RW 13-13B	NWSW	13	070S	230E	4304715238	5670	Federal	GW	P
RWU 122 (24-14B)	RW 24-14B	SESW	14	070S	230E	4304715239		Federal	OW	P
RWU 125 (34-19B)	RW 34-19B	SWSE	19	070S	230E	4304715242	5670	Federal	OW	TA
RWU 126 (41-29A)	RW 41-29A	NENE	29	070S	220E	4304715242		Federal	OW	P

#### QEP Uinta Basin (N2460) to QUESTAR E and P (N5085) RED WASH UNIT

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 127 (12-19B)	RW 12-19B	SWNW	19	070S	230E	4304715244	5670	Federal	OW	S
RWU 129 (14-15B)	RW 14-15B	SWSW	15	070S	230E	4304715246	5670	Federal	OW	P
RWU 133 (41-34B)	RW 41-34B	NENE	34	070S	230E	4304715250	5670	Federal	OW	P
RWU 136 (43-19B)	RW 43-19B	NESE	19	070S	230E	4304715252	5670	Federal	OW	TA
RWU 137 (34-28B)	RW 34-28B	SWSE	28	070S	230E	4304715253	5670	Federal	GW	TA
RWU 138 (41-30B)	RW 41-30B	NENE	30	070S	230E	4304715254	5670	Federal	OW	P
RWU 140 (24-22B)	RW 24-22B	SESW	22	070S	230E	4304715255	5670	Federal	OW	P
RWU 141 (11-27B)	RW 11-27B	NWNW	27	070S	230E	4304715256	5670	Federal	OW	TA
RWU 143 (33-14B)	RW 33-14B	NWSE	14	070S	230E	4304715257	5670	Federal	OW	P
RWU 144 (21-18B)	RW 21-18B	NENW	18	070S	230E	4304715258	5670	Federal	OW	TA
RW 24-13B	RW 24-13B	SESW	13	070S	230E	4304715259	5670	Federal	OW	TA
RWU 147 (22-22B)	RW 22-22B	SENW	22	070S	230E	4304715260	5670	Federal	OW	TA
RWU 148 (13-22B)	RW 13-22B	NWSW	22	070S	230E	4304715261	_	Federal	WI	A
RWU 150 (31-22B)	RW 31-22B	NWNE	22	070S	230E	4304715263		Federal	WI	I
RWU 151 (42-14B)	RW 42-14B	SENE	14	070S	230E	4304715264	5670	Federal	OW	P
RWU 153 (14-29B)	RW 14-29B	SWSW	29	070S	230E	4304715265	5670	Federal	OW	P
RWU 156 (23-15B)	RW 23-15B	NESW	15	070S	230E	4304715267		Federal	WI	A
RWU 158 (32-30B)	RW 32-30B	SWNE	30	070S	230E	4304715268		Federal	OW	P
RWU 160 (32-15B)	RW 32-15B	SWNE	15	070S	230E	4304715270		Federal	OW	P
RWU 161 (14-20B)	RW 14-20B	SWSW	20	070S	230E	4304715271	-	Federal	WI	I
RWU 162 (12-20B)	RW 12-20B	SWNW	20	070S	230E	4304715272		Federal	OW	P
RWU 164 (12-28B)	RW 12-28B	SWNW	28	070S	230E	4304715274	5670	Federal	OW	P
RWU 165 (32-26B)	RW 32-26B	SWNE	26	070S	230E	4304715275	5670	Federal	GW	TA
RWU 167 (23-21B)	RW 23-21B	NESW	21	070S	230E	4304715277	5670	Federal	OW	S
RWU 168 (23-24B)	RW 23-24B	NESW	24	070S	230E	4304715278	5670	Federal	OW	TA
RWU 172 (21-30B)	RW 21-30B	NENW	30	070S	230E	4304715280	5670	Federal	OW	TA
RWU 174 (21-20B)	RW 21-20B	NENW	20	070S	230E	4304715281	5670	Federal	WI	A
RWU 176 (31-28B)	RW 31-28B	NWNE	28	070S	230E	4304715283	5670	Federal	OW	TA
RWU 177 (42-28B)	RW 42-28B	SENE	28	070S	230E	4304715284	5670	Federal	OW	TA
RW 22-13B	RW 22-13B	SENW	13	070S	230E	4304715285	5670	Federal	OW	TA
RWU 180 (31-23B)	RW 31-23B	NWNE	23	070S	230E	4304715287	5670	Federal	OW	TA
RWU 181 (34-30B)	RW 34-30B	SWSE	30	070S	230E	4304715288	5670	Federal	OW	P
RW 33-13B	RW 33-13B	NWSE	13	070S	230E	4304715289	5670	Federal	WI	A
RWU 184 (23-26B)	RW 23-26B	NESW	26	070S	230E	4304715290		Federal	GW	S
RWU 188 (23-20B)	RW 23-20B	NESW	20	070S	230E	4304715291		Federal	OW	TA
RWU 192 (41-33A)	RW 41-33A	NENE	33	070S	220E	4304715294		Federal	OW	P
RWU 193 (43-24B)	RW 43-24B	NESE	24	070S	230E	4304715295		Federal	GW	TA
RWU 194 (12-14B)	RW 12-14B	SWNW	14	070S	230E	4304715296		Federal	OW	S
RWU 196 (23-17C)	RW 23-17C	NESW	17	070S	240E	4304715298		Federal	GW	TA
RWU 199 (43-22A)	RW 43-22A	NESE	22	070S	220E	4304715301		Federal	WI	A
RWU 201 (32-28C)	RW 32-28C	SWNE	28	070S	240E	4304715301		Federal	GW	P

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 202 (21-34A)	RW 21-34A	NENW	34	070S	220E	4304715303	99996	Federal	WI	I
RWU 204 (23-25A)	RW 23-25A	NESW	25	070S	220E	4304715305	5670	Federal	OW	P
RWU 205 (23-21C)	RW 23-21C	NESW	21	070S	240E	4304715306	5670	Federal	GW	TA
RWU 2 (14-24B)	RW 14-24B	swsw	24	070S	230E	4304716472		Federal	WI	A
RWU 7 (41-27B)	RW 41-27B	NENE	27	070S	230E	4304716473		Federal	WI	I
RWU 16 (43-28B)	RW 43-28B	NESE	28	070S	230E	4304716475		Federal	WI	I
RWU 25 (23-23B)	RW 23-23B	NESW	23	070S	230E	4304716476		Federal	WI	A
RWU 59 (12-24B)	RW 12-24B	SWNW	24	070S	230E	4304716477		Federal	WI	A
RWU 61 (12-27A)	RW 12-27A	SWNW	27	070S	220E	4304716478		Federal	WI	I
RWU 91 (33-22B)	RW 33-22B	NWSE	22	070S	230E	4304716479		Federal	WI	A
RWU 93 (43-27B)	RW 43-27B	NESE	27	070S	230E	4304716480		Federal	WI	I
RWU 6 (41-21B)	RW 41-21B	NENE	21	070S	230E	4304716482		Federal	WI	A
RWU 68 (41-13B)	RW 41-13B	NENE	13	070S	230E	4304716485		Federal	WI	I
RWU 170 (41-15B)	RW 41-15B	NENE	15	070S	230E	4304716495		Federal	WI	I
RWU 173 (21-21B)	RW 21-21B	NENW	21	070S	230E	4304716496		Federal	WI	A
RWU 182 (14-21B)	RW 14-21B	swsw	21	070S	230E	4304716497	99996	Federal	WI	A
RWU 185 (41-1B)	RW 41-14B	NENE	14	070S	230E	4304716498		Federal	WI	A
RWU 212 (41-8F)	RW 41-8F	NENE	08	080S	240E	4304720014	5670	Federal	GW	P
RWU 213 (41-33B)	RW 41-33B	NENE	33	070S	230E	4304720060		Federal	WD	A
RWU 215 (43-28A)	RW 43-28A	NESE	28	070S	220E	4304730058		Federal	WD	A
RWU 216 (21-27A)	RW 21-27A	NENW	27	070S	220E	4304730103		Federal	WI	Α
RWU 219 (44-21C)	RW 44-21C	SESE	21	070S	240E	4304730149	5670	Federal	GW	S
RWU 220 (22-23B)	RW 22-23B	SENW	23	070S	230E	4304730192	5670	Federal	OW	TA
RWU 221 (13-27B)	RW 13-27B	NWSW	27	070S	230E	4304730199	5670	Federal	OW	TA
RWU 222 (31-27B)	RW 31-27B	NWNE	27	070S	230E	4304730200	5670	Federal	GW	TA
RWU 224 (44-22B)	RW 44-22B	SESE	22	070S	230E	4304730202	5670	Federal	GW	TA
RWU 225 (13-23B)	RW 13-23B	NWSW	23	070S	230E	4304730212	5670	Federal	GW	TA
RWU 226 (24-23B)	RW 24-23B	SESW	23	070S	230E	4304730249	5670	Federal	GW	S
RWU 227 (14-26B)	RW 14-26B	SWSW	26	070S	230E	4304730257	5670	Federal	OW	TA
RWU 228 (21-34B)	RW 21-34B	NENW	34	070S	230E	4304730258	5670	Federal	ow	P
RWU 229 (43-26B)	RW 43-26B	NESE	26	070S	230E	4304730259	5670	Federal	OW	TA
RWU 230 (14-18C)	RW 14-18C	SWSW	18	070S	240E	4304730309	5670	Federal	ow	P
RWU 231 (21-35B)	RW 21-35B	NENW	35	070S	230E	4304730310	5670	Federal	ow	TA
RWU 232 (12-26B)	RW 12-26B	SWNW	26	070S	230E	4304730311	5670	Federal	OW	TA
RWU 233 (12-25B)	RW 12-25B	SWNW	25	070S	230E	4304730312		Federal	OW	TA
RWU 234 (32-24B)	RW 32-24B	SWNE	24	070S	230E	4304730313		Federal	OW	P
RWU 235 (34-18C)	RW 34-18C	SWSE	18	070S	240E	4304730314		Federal	OW	S
RWU 236 (21-19C)	RW 21-19C	NENW	19	070S	240E	4304730340		Federal	GW	P
RWU 237 (14-25B)	RW 14-25B	SWSW	25	070S	230E	4304730341		Federal	OW	P
RWU 238 (32-35B)	RW 32-35B	SWNE	35	070S	230E	4304730342		Federal	OW	TA
RWU 239 (41-35B)	RW 41-35B	NENE	35	070S	230E	4304730343		Federal	OW	TA

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 240 (12-36B)	RW 12-36B	SWNW	36	070S	230E	4304730344	5670	Federal	OW	S
RWU 241 (22-14B)	RW 22-14B	SENW	14	070S	230E	4304730345	5670	Federal	OW	P
RW 42-13B	RW 42-13B	SENE	13	070S	230E	4304730346	5670	Federal	OW	P
RWU 243 (42-18C)	RW 42-18C	SENE	18	070S	240E	4304730347	5670	Federal	OW	TA
RWU 244 (23-19C)	RW 23-19C	NESW	19	070S	240E	4304730348	5670	Federal	GW	P
RWU 246 (22-18C)	RW 22-18C	SENW	18	070S	240E	4304730387	5670	Federal	OW	P
RWU 247 (22-17C)	RW 22-17C	SENW	17	070S	240E	4304730388	5670	Federal	GW	P
RWU 258 (34-22A)	RW 34-22A	SWSE	22	070S	220E	4304730458	5670	Federal	WI	A
RWU 262 (22-26B)	RW 22-26B	SENW	26	070S	230E	4304730517	5670	Federal	GW	TA
RWU 263 (24-26B)	RW 24-26B	SESW	26	070S	230E	4304730518		Federal	WI	I
RWU 264 (31-35B)	RW 31-35B	NWNE	35	070S	230E	4304730519		Federal	WI	A
RWU 265 (44-26B)	RW 44-26B	SESE	26	070S	230E	4304730520	5670	Federal	GW	P
RWU 266 (33-26B)	RW 33-26B	NWSE	26	070S	230E	4304730521		Federal	WI	I
RWU 269 (13-26B)	RW 13-26B	NWSW	26	070S	230E	4304730522		Federal	WI	A
RWU 273 (42-27B)	RW 42-27B	SENE	27	070S	230E	4304731051	5670	Federal	OW	TA
RWU 279 (11-36B)	RW 11-36B	NWNW	36	070S	230E	4304731052	99996	Federal	WI	A
RWU 276 (44-27B)	RW 44-27B	SESE	27	070S	230E	4304731053	5670	Federal	OW	TA
RWU 272 (44-23B)	RW 44-23B	SESE	23	070S	230E	4304731054	5670	Federal	GW	P
RWU 278 (11-26)	RW 11-26	NWNW	26	070S	230E	4304731076	5670	Federal	GW	TA
RWU 275 (31-26B)	RW 31-26B	NWNE	26	070S	230E	4304731077		Federal	WI	A
RWU 280 (11-35B)	RW 11-35B	NWNW	35	070S	230E	4304731079	5670	Federal	OW	P
RWU 282 (42-26B)	RW 42-26B	SENE	26	070S	230E	4304731080	5670	Federal	GW	TA
RWU 271 (42-35B)	RW 42-35B	SENE	35	070S	230E	4304731081	5670	Federal	WI	I
RWU 270 (22-35B)	RW 22-35B	SENW	35	070S	230E	4304731082	5670	Federal	OW	P
RWU 284 (33-23B)	RW 33-23B	NWSE	23	070S	230E	4304731476	5670	Federal	GW	TA
RWU 285 (11-24B)	RW 11-24B	NWNW	24	070S	230E	4304731477	5670	Federal	OW	P
RWU 286 (42-21B)	RW 42-21B	SENE	21	070S	230E	4304731478	5670	Federal	OW	P
RW 44-13B	RW 44-13B	SESE	13	070S	230E	4304731512	5670	Federal	OW	TA
RWU 288 (24-27)	RW 24-27	SESW	27	070S	230E	4304731513	5670	Federal	OW	TA
RWU 289 (13-24B)	RW 13-24B	NWSW	24	070S	230E	4304731517	5670	Federal	OW	P
RWU 292 (42-23B)	RW 42-23B	SENE	23	070S	230E	4304731576	5670	Federal	GW	TA
RWU 295 (11-22B)	RW 11-22B	NWNW	22	070S	230E	4304731577	5670	Federal	GW	TA
RWU 296 (12-35B)	RW 12-35B	SWNW	35	070S	230E	4304731578	5670	Federal	OW	S
RWU 297 (24-15B)	RW 24-15B	SESW	15	070S	230E	4304731579		Federal	OW	P
RWU 293 (22-22A)	RW 22-22A	SENW	22	070S	220E	4304731581		Federal	OW	TA
RWU 294 (24-18C)	RW 24-18C	SESW	18	070S	240E	4304731582		Federal	GW	P
RWU 298 (22-27B)	RW 22-27B	SENW	27	070S	230E	4304731679		Federal	OW	TA
RWU 301 (43-15B)	RW 43-15B	NESE	15	070S	230E	4304731682		Federal	GW	TA
RWU 302 (22-24B)	RW 22-24B	SENW	24	070S	230E	4304731683		Federal	GW	TA
RWU 303 (34-17B)	RW 34-17B	SWSE	17	070S	230E	4304731819		Federal	OW	P
RED WASH 305 (41-4F)	RW 41-4F	C-NE	04	080S	240E	4304732538		Federal	GW	TA

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RED WASH 306	RW 23-23C	NESW	23	070S	240E	4304732629	5670	Federal	GW	P
RWU 207	RW 14-17B	SWSW	17	070S	230E	4304732738	5670	Federal	OW	P
RED WASH UNIT 261	RW 23-17B	NESW	17	070S	230E	4304732739	5670	Federal	WI	A
RWU 268 (43-17B)	RW 43-17B	NESE	17	070S	230E	4304732980	5670	Federal	WI	A
RWU 267 (32-17B)	RW 32-17B	SWNE	17	070S	230E	4304732981	5670	Federal	OW	P
RWU 283 (43-18B)	RW 43-18B	NESE	18	070S	230E	4304732982	5670	Federal	WI	A
RWU 299 (32-18B)	RW 32-18B	SWNE	18	070S	230E	4304733018	5670	Federal	OW	P
RWU 42-20B	RW 42-20B	SENE	20	070S	230E	4304733490	5670	Federal	OW	P
RWU 22-20B	RW 22-20B	SENW	20	070S	230E	4304733491	5670	Federal	OW	S
RWU 24-19B	RW 24-19B	SESW	19	070S	230E	4304733492	5670	Federal	OW	P
RWU 13-19B	RW 13-19B	NWSW	19	070S	230E	4304733497	5670	Federal	WI	A
RWU 13-20B	RW 13-20B	NWSW	20	070S	230E	4304733498	5670	Federal	WI	A
RWU 33-19B	RW 33-19B	NWSE	19	070S	230E	4304733499	5670	Federal	WI	A
RWU 33-20B	RW 33-20B	NWSE	20	070S	230E	4304733500	5670	Federal	WI	A
RED WASH 22-21B	RW 22-21B	SENW	21	070S	230E	4304733522	5670	Federal	OW	S
RED WASH 24-20B	RW 24-20B	SESW	20	070S	230E	4304733523	5670	Federal	OW	P
RED WASH 44-19B	RW 44-19B	SESE	19	070S	230E	4304733524	5670	Federal	OW	P
RED WASH 44-20B	RW 44-20B	SESE	20	070S	230E	4304733525	5670	Federal	OW	P
RWU 11-19B	RW 11-19B	NWNW	19	070S	230E	4304733552	5670	Federal	WI	A
RWU 11-20B	RW 11-20B	NWNW	20	070S	230E	4304733553	5670	Federal	WI	A
RWU 24-18B	RW 24-18B	SESW	18	070S	230E	4304733554	5670	Federal	OW	P
RWU 31-19B	RW 31-19B	NWNE	19	070S	230E	4304733555	5670	Federal	WI	A
RWU 42-19B	RW 42-19B	SENE	19	070S	230E	4304733556	5670	Federal	OW	P
RWU 22-19B	RW 22-19B	SENW	19	070S	230E	4304733559	5670	Federal	OW	P
RWU 23-24A	RW 23-24A	NESW	24	070S	220E	4304733567	5670	Federal	OW	P
RWU 34-24A	RW 34-24A	SWSE	24	070S	220E	4304733568	5670	Federal	WI	A
RWU 42-24A	RW 42-24A	SENE	24	070S	220E	4304733569	5670	Federal	OW	S
RWU 11-25A	RW 11-25A	NWNW	25	070S	220E	4304733574	5670	Federal	WI	A
RWU 13-25A	RW 13-25A	NWSW	25	070S	220E	4304733575	5670	Federal	WI	A
RWU 21-25A	RW 21-25A	NENW	25	070S	220E	4304733576	5670	Federal	OW	P
RWU 31-25A	RW 31-25A	NWNE	25	070S	220E	4304733577	5670	Federal	WI	A
RWU 33-25A	RW 33-25A	NWSE	25	070S	220E	4304733578	5670	Federal	WI	A
RW 41-25AX	RW 41-25A	NENE	25	070S	220E	4304733579	5670	Federal	OW	P
RWU 42-25A	RWU 42-25A	SENE	25	070S	220E	4304733580	5670	Federal	OW	TA
RWU 11-29B	RW 11-29B	NWNW	29	070S	230E	4304733590		Federal	WI	A
RWU 12-24A	RW 12-24A	SWNW	24	070S	220E	4304733591	5670	Federal	WI	Á
RWU 21-24A	RW 21-24A	NENW	24	070S	220E	4304733592	5670	Federal	OW	P
RWU 34-13A	RW 34-13A	SWSE	13	070S	220E	4304733593	5670	Federal	WI	A
RWU 44-18B	RW 44-18B	SESE	18	070S	230E	4304733594		Federal	OW	P
RW 22-13A	RW 22-13A	SENW	13	070S	220E	4304733765		Federal	OW	S
RWU 22-29B	RW 22-29B	SENW	29		230E	4304733766		Federal	OW	S

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 41-24A	RW 41-24A	NENE	24	070S	220E	4304733769	5670	Federal	OW	D
RWU 42-30B	RW 42-30B	SENE	30	070S	230E	4304733769	5670	Federal	OW	P
RWU 44-30B	RWU 44-30B	SESE	30	070S	230E	4304733771	5670	Federal	OW	P
RWU 11-30B	RW 11-30B	NWNW	30	070S	230E	4304733772	5670	Federal	WI	
RWU 22-25A	RW 22-25A	SENW	25	070S	230E	4304733786	5670	Federal	OW	A P
RWU 31-30B	RW 31-30B	NWNE	30	070S	230E	4304733788	5670	Federal	WI	A
RWU 33-30B	RW 33-30B	NWSE	30	070S	230E	4304733788	5670	Federal	WI	A
RED WASH U 34-27C	RW 34-27C	SWSE	27	070S	240E	4304735790	5670	Federal	GW	P
RWU 34-22C	RW 34-22C	SWSE	22	070S	240E	4304735098	5670	Federal	GW	P
RW 12G-20C	RW 12G-20C	SWNW	20	070S	240E	4304735239	14011	Federal	GW	S
RW 43G-08F	RW 43G-08F	NESE	08	080S	240E	4304735655	14011	Federal	GW	APD
RW 22G-09F	RW 22G-09F	SENW	09	080S	240E	4304735656	15636	Federal	GW	OPS
RWU 34-23AG	RW 34-23AG	SWSE	23	070S	220E	4304735668	5670	Federal	OW	P
RWU 34-27AG	RWU 34-27AD	SWSE	27	070S	220E	4304735669	5670	Federal	OW	DRL
RWU 32-27AG	RWU 32-27AG	SWNE	27	070S	220E	4304735670	5670	Federal	OW	S
RW 14-34AMU	RW 14-34AMU	SWSW	34	070S	220E	4304735671		Federal	GW	P
RW 12-08FG	RW 12-08FG	SWNW	08	080S	240E	4304736348		Federal	GW	APD
RW 44-08FG	RW 44-08FG	SESE	08	080S	240E	4304736349	15261	Federal	GW	P
RW 12-17FG	RW 12-17FG	SWNW	17	080S	240E	4304736350		Federal	GW	APD
RW 34-34 AMU	RW 34-34 AD	SWSE	34	070S	220E	4304736351		Federal	GW	APD
RW 44-35 AMU	RW 44-35 AMU	SESE	35	070S	220E	4304736352		Federal	GW	APD
RW 14-35 AMU	RW 14-35 AMU	SWSW	35	070S	220E	4304736354		Federal	GW	APD
RW 33-31 BMU	RW 33-31 BD	NWSE	31	070S	230E	4304736357		Federal	GW	APD
RW 13-31 BMU	RW 13-31 BD	NWSW	31	070S	230E	4304736358		Federal	GW	APD
RW 32-15FG	RW 32-15FG	SWNE	15	080S	240E	4304736443		Federal	GW	APD
RW 21-26AG	RW 21-26AD	NENW	26	070S	220E	4304736768		Federal	OW	APD
RW 43-26AG	RW 43-26AG	NESE	26	070S	220E	4304736769		Federal	OW	APD
RW 43-23AG	RW 43-23AG	NESE	23	070S	220E	4304736770		Federal	OW	APD
RW 41-26AG	RW 41-26AG	NENE	26	070S	220E	4304736818		Federal	OW	APD
RW 04-25BG	RW 04-25B	NWSW	25	070S	230E	4304736982		Federal	ow	APD
RW 01-25BG	RW 01-25BG	NWNW	25	070S	230E	4304736983		Federal	OW	APD
RW 04-26BG	RW 04-26BG	SESW	26	070S	230E	4304736984		Federal	OW	APD
RW 01-26BG	RW 01-26BG	SWNW	26	070S	230E	4304736985		Federal	OW	APD
RW 01-35BG	RW 01-35BG	SWNW	35	070S	230E	4304736986		Federal	OW	APD

Original Well Name	Well Name & No.	Q/Q	SEC	TWP	RNG	API	Entity	Lease	Well Type	Status
RWU 51 (12-16B)	RW 12-16B	SWNW	16	070S	230E	4304715177	5670	State	OW	P
RWU ST 189 (41-16B)	RW 41-16B	NENE	16	070S	230E	4304715292	5670	State	OW	S
RED WASH UNIT 259	RW 14-16B	swsw	16	070S	230E	4304732785	5670	State	OW	P
RED WASH UNIT 260	RW 34-16B	SWSE	16	070S	230E	4304732786	5670	State	OW	P
RWU 324 (23-16B)	RW 23-16B	SESW	16	070S	230E	4304733084	5670	State	WI	OPS
RWU 21W-36A	RWU 21W-36A	NENW	36	070S	220E	4304733730		State	GW	LA
RWU 21G-36A	RWU 21G-36A	NENW	36	070S	220E	4304733731		State	OW	LA
RWU 41-36A	RWU 41-36A	NENE	36	070S	220E	4304733732		State	OW	LA
RWU 43-16B	RWU 43-16B	NESE	16	070S	230E	4304733733		State	OW	LA
RWU 21-16B	RWU 21-16B	NENW	16	070S	230E	4304733734		State	OW	LA
RWU 11-36A	RWU 11-36A	NWNW	36	070S	220E	4304733736		State	OW	LA
RWU 13-36A	RWU 13-36A	NWSW	36	070S	220E	4304733737		State	OW	LA
RW 32G-16C	RW 32G-16C	SWNE	16	070S	240E	4304735238	5670	State	GW	P
RW 14-36AMU	RW 14-36AMU	SWSW	36	070S	220E	4304736721		State	GW	APD
RW 01-36BG	RW 01-36BG	NWNW	36	070S	230E	4304736887	5670	State	OW	S
RW 24-16BG	RW 24-16BG	SESW	16	070S	230E	4304737746	5670	State	OW	DRL
RW 12-32BG	RW 12-32BG	SWNW	32	070S	230E	4304737946	15841	State	GW	DRL

### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL. GAS AND MINING

		DIVISION	N OF OIL, GAS AND	MININ	1G			ASE DESIGNATION AND SERIAL NUMBER:
	SUNDRY	NOTIC	ES AND REPOR	TS C	N WEL	LS		NDIAN, ALLÖTTEE OR TRIBE NAME:
Do	not use this form for proposals to drill n drill horizontal le	ew wells, signii sterals. Use Af	ficantly deepen existing wells below	v current l	oottom-hole dep	th, reenter plugged wells, or to	7. UN \$66	T or CA AGREEMENT NAME:
	YPE OF WELL OIL WELL		SAS WELL OTHE				8. WE	LL NAME and NUMBER:
	AME OF OPERATOR							NUMBER:
	JESTAR EXPLORATIO	N AND P	RODUCTION COMP	ANY		PHONE NUMBER:		IChed ELD AND POOL, OR WILDCAT:
10	50 17th Street Suite 500 Gir	Denver	STATE CO	<sub>ZIP</sub> 802	265	(303) 308-3068		LED AND FOOL, OR WILDOW!
	OCATION OF WELL OOTAGES AT SURFACE: attach	ed					COUN	ту: Uintah
Q	TR/QTR, SECTION, TOWNSHIP, RAN	GE, MERIDIAN	4:				STATE	: UTAH
11.	CHECK APP	ROPRIAT	E BOXES TO INDIC	ATE I	NATURE	OF NOTICE, REP	ORT, O	R OTHER DATA
	TYPE OF SUBMISSION				Т	YPE OF ACTION		
Z	NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 1/1/2007	CASIN	ZE R CASING IG REPAIR GE TO PREVIOUS PLANS		DEEPEN FRACTURE NEW CONS OPERATOR	TRUCTION		REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON TUBING REPAIR
	SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion:	CHAN	GE TUBING GE WELL NAME GE WELL STATUS MINGLE PRODUCING FORMATION	us [	RECLAMATI	ON (START/RESUME) ON OF WELL SITE		WATER DISPOSAL WATER SHUT-OFF OTHER: Operator Name Change
12.	DECORPORATION AT 44	<u> </u>	ERT WELL TYPE	<u> </u>		TE - DIFFERENT FORMATIO		Onlinge
Eff AN cha on Fe Uta Fe Cu atta	rective January 1, 2007 of ID PRODUCTION COM ange of operator is involute attached list. All operator Bond Number: 96 ah State Bond Number: e Land Bond Number: rrent operator of record, ached list.	operator (IPANY. 1) IVed. The perations (5002976) 9650030 (9650030), QEP UII	of record, QEP Uinta This name change inverse same employees with will continue to be continued to be continue	Basin volves Il cont vered ESB reby r lay B. N ANI d on t	esigns as Neese, E	hereafter be known ternal corporate no e responsible for on humbers: operator of the pro- executive Vice Pre- executive Vice Pre-	n as Quame ch peration operties sident, Q Y, herel	as of the properties described as described on the QEP Uinta Basin, Inc. by assumes all rights, duties
	<b></b>			wuesi	aı Explor			
NAM	(PLEASE PRINT) Debrá K. S	tanberry	2 /		TITLE	Supervisor, Reg	gulatory	Affairs
SIGN	ATURE /	5	Sporterny		DATE	3/16/2007		
his sp	ace for State use only)				******			

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#### FORM 9

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL. GAS AND MINING

	DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: See attached
SUNDRY	NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: see attached
Do not use this form for proposals to drill ne drill horizontal late	www.ells, significantly deepen existing wells below current bottom-hole depth, reenter plugged well erals Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT or CA AGREEMENT NAME: SOE attached
1 TYPE OF WELL OIL WELL	GAS WELL OTHER	8. WELL NAME and NUMBER:
2. NAME OF OPERATOR:		see attached  9. API NUMBER:
QUESTAR EXPLORATION 3 ADDRESS OF OPERATOR	N AND PRODUCTION COMPANY	attached
	Denver STATE CO ZIP 80265 PHONE NUMBER: (303) 308-30	10. FIELD AND POOL, OR WILDCAT:
4 LOCATION OF WELL FOOTAGES AT SURFACE attache	_	соимту: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANG	DE, MERIDIAN:	STATE: UTAH
11. CHECK APPR	OPRIATE BOXES TO INDICATE NATURE OF NOTICE, F	REPORT OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
PER THE ATTACHED LIST	ACIDIZE DEEPEN  ALTER CASING FRACTURE TREAT  CASING REPAIR NEW CONSTRUCTION  CHANGE TO PREVIOUS PLANS OPERATOR CHANGE  CHANGE TUBING PLUG AND ABANDON  CHANGE WELL NAME PLUG BACK  CHANGE WELL STATUS PRODUCTION (START/RESUME)  COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE  CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORM  APLETED OPERATIONS. Clearly show all pertinent details including dates, depths  TOF WELLS, QUESTAR EXPLORATION AND PRODUCT BE UPDATED IN YOUR RECORDS.	, volumes, etc.

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### United States Department of the Interior

### BUREAU OF LAND MANAGEMENT Utah State Office

P.O. Box 45155 Salt Lake City, UT 84145-0155



IN REPLY REFER TO 3180 UT-922

April 23, 2007

Questar Exploration and Production Company 1050 17th Street, Suite 500 Denver, Colorado 80265

Re:

Red Wash Unit Uintah County, Utah

#### Gentlemen:

On April 12, 2007, we received an indenture dated April 6, 2007, whereby QEP Uinta Basin, Inc. resigned as Unit Operator and Questar Exploration and Production Company was designated as Successor Unit Operator for the Red Wash Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective April 23, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Red Wash Unit Agreement.

Your nationwide oil and gas bond No. ESB000024 will be used to cover all federal operations within the Red Wash Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Greg J. Noble

Greg J. Noble Acting Chief, Branch of Fluid Minerals

**Enclosure** 

bcc:

Field Manager - Vernal (w/enclosure)

SITLA

Division of Oil, Gas & Mining

File - Red Wash Unit (w/enclosure)

Agr. Sec. Chron Reading File Central Files

UT922:TAThompson:tt:4/23/07

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DIV. OF OIL, GAS & MINING

### MECHANICAL INTEGRITY TEST CASING OR ANNULUS PRESSURE TEST

## U.S. ENVIRONMENTAL PROTECTION AGENCY UNDERGROUND INJECTION CONTROL PROGRAM, UIC IMPLEMENTATION SECTION (8P-W-GW) 999 18TH STREET, SUITE 300, DENVER,CO. 80202-2466

EPA WITNESS:	NO		DATE:	5/9/2007			TIME: 11:25	☑ AM ☐ PM
TEST CONDUCTED BY:	Dennis J.	Paulsor	n (Questar)					
OTHERS PRESENT: API NUMBER:	(ADVANTAGE OIL 43-047-33499		ERVICE)KE\	IN CARTER		ANN PETRIK UT29	(QUESTAR) 903-04611	
WELL NAME: RW 33-19B				TYPE: ☑ ER	SWD	STATUS:	☑AC ☐TA	□uc
FIELD: RED WASH								
WELL LOCATION:	NWSE S19-T7S-R2	3E	<u> </u>		w co	UNTY: UINTA	H STA	TE: UTAH
OPERATOR: QEP UIN	TA BASIN INC.							
LAST MIT: 31-May-02		MAXIM	UM ALLOWA	BLE PRESSUI	RE:	2085	PSIG	
	SCHEDULED TEST?	<b></b> ✓YES	□no					
	TEST FOR PERMIT?	YES	☑ NO					
		YES						
	AFTER WELL WORK?	☑ YES	_	IF YES, RATE:		238	BPD	
	TING DURING TEST?							
PRE-TEST CASING/TUBING A	NNULUS PRESSURE	_	2 :P\$	SIG				
MIT DATA TABLE	TEST #1			TEST #	2	<u> </u>		TEST #3
TUBING	PRESSURE				5010	· · · · · · · · · · · · · · · · · · ·		PSIG
INITIAL PRESSURE	2036	PSIG			PSIG PSIG			PSIG
END OF TEST PRESSURE	2036	PSIG			F310	<u> </u>		
CASING/TUBING	ANNULUS		TUBING					
	1136.5 @11:31:09	7		2036.4	PSIG			PSIG
	1127.2 @11:36:09			2036.3				PSIG
	6 1125.8 @11:41:09			2036.3				PSIG
	6 1125.0 @11:46:10			2036.3				PSIG
	6 1124.5 @11:51:09			2036.2			.,.,	PSIG
	1124.5 @11.51.09 1124.0 @11:56:09			2036.2				PSIG
		PSIG		2036.3		-		PSIG
	1123.6 @12:01:09			200.0	PSIG			PSIG
MINUTES		PSIG PSIG			PSIG			PSIG
MINUTES		FAIL	☐ PASS	FA			PASS	FAIL
RESULT	☑ PASS □	] FAIL	ال المال	<u></u> (**)				

DOES THE ANNULUS PRESSURE BUILD BACK UP AFTER THE TEST?

YES

☑ NO

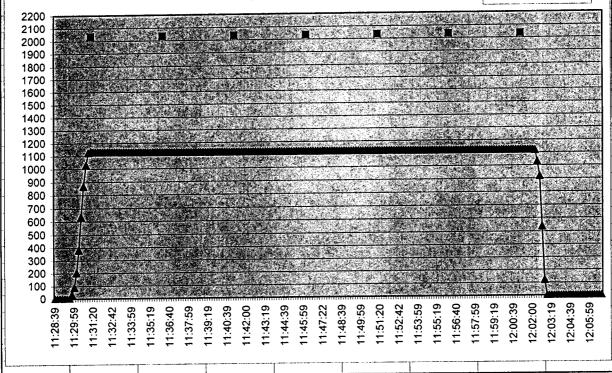
3000	PSIG	7049-1	2	FEB	7			
						CASING	TUBING	AMBIENT
DATE	MONTH	YEAR	TIME	FILE	SAMPLE	PSIG	PSIG	TEMP
	MAY	2007	11:28:39	4	1	0		70
	MAY	2007	11:28:49	4	2	0		70
	MAY	2007	11:28:59	4	3	0		70
	MAY	2007	11:29:09	4	4	0		70
	MAY	2007	11:29:20	4	5	0		70
	MAY	2007	11:29:32	4	6	0		70
	MAY	2007	11:29:39	4	7	0		70
	MAY	2007	11:29:49	4	8	33.599		70
	MAY	2007	11:29:59	4	9	87.69		70
	MAY	2007	11:30:09	4	10	203.42		70
	MAY	2007	11:30:20	4	11	381.3		70
	MAY	2007	11:30:32	4	12	634.6		70
	MAY	2007	11:30:39	4	13	865.9		70
	MAY	2007	11:30:49	4	14	1029.5		70
	MAY	2007	11:30:59	4	15	1126.6		70
9	MAY	2007	11:31:09	4	16	1136.5	2036.4	
9	MAY	2007	11:31:20	4	17	1131.6		70
9	MAY	2007	11:31:32	4	18	1130.5		70
9	MAY	2007	11:31:39	4	19	1130.7		70
9	MAY	2007	11:31:49	4	20	1131		70
9	MAY	2007	11:31:59	4	21	1131.2		70
9	MAY	2007	11:32:09	4	22	1130.9		70
9	MAY	2007	11:32:19	4	23	1130.6		70
9	MAY	2007	11:32:30	4	24	1130.2		70
9	MAY	2007	11:32:42	4	25	1129.9		70
9	MAY	2007	11:32:49	4	26	1129.7		70
9	MAY	2007	11:32:59	4	27	1129.5		70
9	MAY	2007	11:33:09	4	28	1129.3		70
9	MAY	2007	11:33:19	4	29	1129.1		70
9	MAY	2007	11:33:30	4	30	1129		70
9	MAY	2007	11:33:42	4	31	1128.8		70
	MAY	2007	11:33:49	4	32	1128.6		70
	MAY	2007	11:33:59	4	33	1128.5		70
	MAY	2007	11:34:09	4	34	1128.4	in the same of the	70
	MAY	2007	11:34:19	4	35	1128.2		70
	MAY	2007	11:34:30	4	36	1128.1		70
	MAY	2007	11:34:42	4	37	1128		70
	MAY	2007	11:34:49	4	38	1127.9		70
	MAY	2007	11:34:59	4	39	1127.8		70
	MAY	2007	11:35:09	4	40	1127.7		70
	MAY	2007	11:35:19	4	41	1127.6		70
	MAY	2007	11:35:29	4	42	1127.5	AND ANDRESS OF THE STREET	70
	MAY	2007	11:35:40	4	43	1127.4		70
	MAY	2007	11:35:52	4	44	1127.3		70
	MAY	2007	11:35:59	4	45	1127.3		70
	MAY	2007	11:36:09	4	46	1127.2	2036.3	
	MAY	2007	11:36:19	4	47	1127.1		70
	MAY	2007	11:36:29	4	48	1127.1		70
	MAY	2007	11:36:40	4	49	1127	the complete description that at also FARWITT FROM	70

9 MAY 2007 11:36:59 4 51 1126.9 7 9 MAY 2007 11:37:09 4 52 1126.8 7 9 MAY 2007 11:37:09 4 53 1126.7 7 9 MAY 2007 11:37:29 4 54 1126.7 7 9 MAY 2007 11:37:29 4 55 1126.6 7 9 MAY 2007 11:37:52 4 56 1126.6 7 9 MAY 2007 11:37:59 4 57 1126.6 7 9 MAY 2007 11:37:59 4 57 1126.6 7 9 MAY 2007 11:38:09 4 57 1126.5 7 9 MAY 2007 11:38:09 4 58 1126.5 7 9 MAY 2007 11:38:09 4 58 1126.5 7 9 MAY 2007 11:38:09 4 60 1126.4 7 9 MAY 2007 11:38:09 4 60 1126.4 7 9 MAY 2007 11:38:09 4 61 1126.3 7 9 MAY 2007 11:38:09 4 61 1126.3 7 9 MAY 2007 11:39:09 4 62 1126.3 7 9 MAY 2007 11:39:09 4 64 1126.2 7 9 MAY 2007 11:39:09 4 66 1126.1 7 9 MAY 2007 11:39:09 4 66 1126.1 7 9 MAY 2007 11:39:09 4 66 1126.1 7 9 MAY 2007 11:39:09 4 67 1126.7 7 9 MAY 2007 11:39:09 4 67 1126.1 7 9 MAY 2007 11:39:09 4 67 1126.1 7 9 MAY 2007 11:39:09 4 67 1126.1 7 9 MAY 2007 11:39:09 4 70 1126.1 7 9 MAY 2007 11:40:09 4 70 1126. 7 9 MAY 2007 11:40:19 4 71 1125.9 7 9 MAY 2007 11:40:29 4 72 1125.9 7 9 MAY 2007 11:40:29 4 78 1125.7 7 9 MAY 2007 11:40:39 4 78 1125.7 7 9 MAY 2007 11:40:39 4 78 1125.5 7 9 MAY 2007 11:40:39 4 78 1125.5 7 9 MAY 2007 11:40:39 4 78 1125.5 7 9 MAY 2007 11:40:39 4 79 1125.5 7 9 MAY 2007 11:40:49 4 88 1125.5 7 9 MAY 2007 11:40:49 4 89 1125.5 7 9 MAY 2007 11:40:49 4 99 1125.1 7 9 MAY 2007	a	MAY	2007	11:36:52	4	50	1126.9		70
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9 MAY     2007     11:44:19     4     95     1125.2     70       9 MAY     2007     11:44:29     4     96     1125.2     70       9 MAY     2007     11:44:39     4     97     1125.2     70       9 MAY     2007     11:44:49     4     98     1125.2     70       9 MAY     2007     11:45:00     4     99     1125.1     70       9 MAY     2007     11:45:12     4     100     1125.1     70									70
9 MAY     2007     11:44:29     4     96     1125.2     70       9 MAY     2007     11:44:39     4     97     1125.2     70       9 MAY     2007     11:44:49     4     98     1125.2     70       9 MAY     2007     11:45:00     4     99     1125.1     70       9 MAY     2007     11:45:12     4     100     1125.1     70			a commence where were property and			and the second control of the second			70
9 MAY     2007     11:44:39     4     97     1125.2     70       9 MAY     2007     11:44:49     4     98     1125.2     70       9 MAY     2007     11:45:00     4     99     1125.1     70       9 MAY     2007     11:45:12     4     100     1125.1     70						The same and the s			70
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9 MAY	2007	11:45:49	4	104	1125.1		69
9 MAY	2007	11:45:59	4	105	1125.1	realizate a ser e mos a menor sussemission o	69
9 MAY	2007	11:46:10	4	106	1125	2036.3	69
9 MAY	2007	11:46:22	4	107	1125		69
9 MAY	2007	11:46:29	4	108	1125		69
9 MAY	2007	11:46:39	4	109	1125		69
9 MAY	2007	11:46:49	4	110	1125		69
9 MAY	2007	11:46:59	4	111	1124.9		69
9 MAY	2007	11:47:10	4	112	1124.9		69
9 MAY	2007	11:47:22	4	113	1124.9		69
9 MAY	2007	11:47:29	4	114	1124.9		69
9 MAY	2007	11:47:39	4	115	1124.9		69
9 MAY	2007	11:47:49	4	116	1124.8		69
9 MAY	2007	11:47:59	4	117	1124.8		69
9 MAY	2007	11:48:10	4	118	1124.8		69
9 MAY	2007	11:48:22	4	119	1124.8		69
9 MAY	2007	11:48:29	4	120	1124.8		69
9 MAY	2007	11:48:39		121	1124.8		69
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9 MAY			4	123	1124.7		69
9 MAY	2007 2007	11:48:59 11:49:09	4	123	1124.7		69
9 MAY			4	124	1124.7		69
9 MAY	2007	11:49:20	4	125	1124.7		69
9 MAY	2007	11:49:32	4	127	1124.7		69
9 MAY	2007	11:49:39	4	127	1124.6	AND AND ADDRESS OF A STATE OF THE STATE OF T	69
9 MAY	2007	11:49:49	4	120	1124.6	MANAGEMENT AND THE SECTION OF THE SE	69
9 MAY	2007	11:49:59	4	130	1124.5		69
9 MAY	2007	11:50:09	4	A REAL PROPERTY AND ADDRESS OF THE PARTY OF	1124.5		69
9 MAY	2007	11:50:20	4	131			69
9 MAY	2007	11:50:32	4	132	1124.5		
9 MAY	2007	11:50:39	4	133	1124.5		69
9 MAY	2007	11:50:49	4	134	1124.5		69
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9 MAY	2007	11:51:09	4	136	1124.5	2036.2	69
9 MAY	2007	11:51:20	4	137	1124.4		69
9 MAY	2007	11:51:32	4	138	1124.4		69
9 MAY	2007	11:51:39	4	139	1124.4		69
9 MAY	2007	11:51:49	4	140	1124.4		69
9 MAY	2007	11:51:59	4	141	1124.4		69
9 MAY	2007	11:52:09	4	142	1124.3		69
9 MAY	2007	11:52:19	4	143	1124.3		69
9 MAY	2007	11:52:30	4	144	1124.3		69
9 MAY	2007	11:52:42	4	145	1124.3		69
9 MAY	2007	11:52:49	4	146	1124.3		69
9 MAY	2007	11:52:59	4	147	1124.3		69
9 MAY	2007	11:53:09	4	148	1124.3		69
9 MAY	2007	11:53:19	4	149	1124.2		69
9 MAY	2007	11:53:30	4	150	1124.2		69
9 MAY	2007	11:53:42	4	151	1124.2		69
9 MAY	2007	11:53:49	4	152	1124.2		69
9 MAY	2007	11:53:59	4	153	1124.2		69

9	MAY	2007	11:54:09	4	154	1124.2		69
	MAY	2007	11:54:19	4	155	1124.1		69
	MAY	2007	11:54:30	4	156	1124.1		69
	MAY	2007	11:54:42	4	157	1124.1		69
	MAY	2007	11:54:49	4	158	1124.1		69
	MAY	2007	11:54:59	4	159	1124.1		69
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	MAY	2007	11:55:52	4	164	1124		69
	MAY	2007	11:55:59	4	165	1124		69
	MAY	2007	11:56:09	4	166	1124	2036.2	69
	MAY	2007	11:56:19	4	167	1124		69
	MAY	2007	11:56:29	4	168	1124		69
	MAY	2007	11:56:40	4	169	1123.9		69
	MAY	2007	11:56:52	4	170	1123.9		69
	MAY	2007	11:56:59	4	171	1123.9		69
	MAY	2007	11:57:09	4	172	1123.9		69
	MAY	2007	11:57:19	4	173	1123.9		69
	MAY	2007	11:57:29	4	174	1123.9		69
	MAY	2007	11:57:40	4	175	1123.9		69
		2007	11:57:52	4	176	1123.9		69
	MAY	2007	11:57:59	4	177	1123.9		69
	MAY	2007	11:58:09	4	178	1123.9		69
	MAY	2007	11:58:19	4	179	1123.8		69
	MAY	2007	11:58:29	4	180	1123.8		69
	MAY	2007	11:58:39	4	181	1123.8		69
	MAY	2007	11:58:50	4	182	1123.8		69
	MAY		11:59:02	4	183	1123.8		69
	MAY	2007	11:59:02	4	184	1123.8		69
	MAY	2007	11:59:09	4	185	1123.8		69
	MAY	2007	11:59:19	4	186	1123.7		69
	MAY	2007		4	187	1123.7		69
	MAY	2007	11:59:39		188			69
	MAY	2007	11:59:50	4	189			69
	MAY	2007	12:00:02	4				69
	MAY	2007	12:00:09	4	190			69
	MAY	2007	12:00:19	4	191			69
	MAY	2007	12:00:29	4	192			69
	MAY	2007	12:00:39	4	193			69
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	MAY	2007	12:01:02	4	195			69
	MAY	2007	12:01:09	4	196			
	MAY	2007	12:01:19	4	197			69
	MAY	2007	12:01:29	4	198			69
9	MAY	2007	12:01:39	4	199			69
	MAY	2007	12:01:49	4	200			69
9	MAY	2007	12:02:00	4	201			69
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	MAY	2007	12:03:12	4	208	0	6
	MAY	2007	12:03:19	4	209	0	6
	MAY	2007	12:03:29	4	210	0	6
	MAY	2007	12:03:39	4	211	0	- 6
	MAY	2007	12:03:49	4	212	0	6
	MAY	2007	12:04:00	4	213	0	6
	MAY	2007	12:04:12	4	214	0	6
	MAY	2007	12:04:19	4	215	0	6
	MAY	2007	12:04:29	4	216	0	6
	MAY	2007	12:04:39	4	217	0	6
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	MAY	2007	12:05:19	4	221	0	(
	MAY	2007	12:05:29	4	222	0	(
	MAY	2007	12:05:39	4	223	0	(
	MAY	2007	12:05:49	4	224	0	(
	MAY	2007	12:05:59	4	225	0	(
9	MAY	2007	12:06:10	4	226	0	(
9	MAY	2007	12:06:22	4	227	0	(
9	MAY	2007	12:06:29	4	228	0	(
9	MAY	2007	12:06:39	4	229	0	(
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### Division of Oil, Gas and Mining OPERATOR CHANGE WORKSHEET

(for state use only)

RO	UTING
	CDW

_(	Change of Operator (Well Sold)				X -	Operator	Name Chan	σe	
	The operator of the well(s) listed below has chan	iged,	effectiv	ve:		орегасы	6/14/2010	ge	
FI	ROM: (Old Operator): 6085-Questar Exploration and Production Compa 1050 17th St, Suite 500 Denver, CO 80265				4		pany e 500		
Ph	one: 1 (303) 308-3048				Phone: 1 (303)	308-3048			
	CA No.				Unit:		RED V	VASH	
WI	ELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE		WELL
<u> </u>	SEE ATTACHED					110		IIFE	STATUS
	PERATOR CHANGES DOCUMENT. ter date after each listed item is completed (R649-8-10) Sundry or legal documentation wa			rom tha	EODMED and		C/20/2010		
2.	(R649-8-10) Sundry or legal documentation wa	s rec	eived fi	com the	NEW anamatan	erator on:	6/28/2010		
3. 4a.	The new company was checked on the <b>Departm</b> Is the new operator registered in the State of U	nent Itah:	of Con	nmerce	, <b>Division of C</b> o Business Numbe	orporations	6/28/2010 <b>Database on:</b> 764611-0143		6/24/2010
	(R649-9-2)Waste Management Plan has been red			,	Requested	_			
50.	Inspections of LA PA state/fee well sites compl Reports current for Production/Disposition & St	ete o	n:	,	n/a	-			
6.	Federal and Indian Lease Wells: The BL	unarı Mon	es on:	DIA L	ok	-	•		
٠.	or operator change for all wells listed on Federa	ivi ani	u or the	BIAN	as approved the				
7.	Federal and Indian Units:	ıı Oı ı	nuian i	eases of	a:	BLM	8/16/2010	BIA	not yet
•	The BLM or BIA has approved the successor	ofur	it onen	aton for	wolle listed		0/1/2/2010		
8.	Federal and Indian Communization Agi	reem	onte (	aloi 101 '' <b>(</b> ' <b>\</b> '')	wells listed on:	,	8/16/2010		
	The BLM or BIA has approved the operator for	or all	welle l	lieted w	ithin a CA on:		<b>NT/A</b>		
9.	Underground Injection Control ("UIC")	) Di	vision	has an	nroved I IIC F	orm 5 Tron	N/A	4 4	
	Inject, for the enhanced/secondary recovery uni	it/pro	iect for	the wa	ter disposal wel	ll(s) listed o			
DA	TA ENTRY:	p. 0.	,000 101	tito via	ter disposar wer	u(s) nsteu oi	· -	6/29/2010	
1.	Changes entered in the Oil and Gas Database of	on:			6/30/2010				
2.	Changes have been entered on the Monthly Op		r Cha	nge Spi	read Sheet on:	•	6/30/2010		
3.	Bond information entered in RBDMS on:			_	6/30/2010				
	Fee/State wells attached to bond in RBDMS on:				6/30/2010				
5.	Injection Projects to new operator in RBDMS of	n:		_	6/30/2010	•			
	Receipt of Acceptance of Drilling Procedures fo	r AP	D/New	on:		n/a			
	ND VERIFICATION:								
	Federal well(s) covered by Bond Number:			_	ESB000024				
2.	Indian well(s) covered by Bond Number:			_	965010693				
3a.	(R649-3-1) The <b>NEW</b> operator of any state/fee	well	(s) liste	ed cover	red by Bond Nu	ımber	965010695		
3b.	The FORMER operator has requested a release	of li	ability 1	from the	eir bond on:	n/a			
	ASE INTEREST OWNER NOTIFICA								
4. (	R649-2-10) The NEW operator of the fee wells l	has b	een cor	tacted:	and informed by	y a letter fro	m the Division		
	of their responsibility to notify all interest owners	s of tl	nis char	nge on:		n/a			
UUI	MMENTS:								

#### STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

	DIVISION OF OIL, GAS AND M	IINING		5. LEASE DE	ESIGNATION AND SERIAL NUMBER AChed
SUNDRY	Y NOTICES AND REPORT	S ON WELL	_S	6. IF INDIAN	, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill	new wells, significantly deepen existing wells below coaterals. Use APPLICATION FOR PERMIT TO DRILL	urrent bottom-hole depth	ı, reenter plugged wells, or to		A AGREEMENT NAME:
1 TYPE OF WELL OIL WELL					ME and NUMBER:
2 NAME OF OPERATOR:				See atta	
Questar Exploration and I	Production Company N5	085		Attache	
3. ADDRESS OF OPERATOR: 1050 17th Street, Suite 500	Denver STATE CO		PHONE NUMBER: (303) 672-6900	10. FIELD AN	ND POOL, OR WILDCAT: ached
4. LOCATION OF WELL		<del></del>	·	<u> </u>	
FOOTAGES AT SURFACE: See a	itached			COUNTY: /	Attached
QTR/QTR, SECTION, TOWNSHIP, RAN	IGE, MERIDIAN:			STATE:	UTAH
11 CHECK APPI	ROPRIATE BOXES TO INDICAT	TE NATURE C	F NOTICE, REPO	RT, OR O	THER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION		
change involves only an ir employees will continue to continue to be covered by Federal Bond Number: 96 Utah State Bond Number: Fee Land Bond Number: BIA Bond Number: 7994.  The attached document is	35002976 (BLM Reference No. E 965003033 965003033 965003033	RECLAMATION RECOMPLETO Pertinent details included the properties (SB000024)  75	RUCTION CHANGE BANDON IN (START/RESUME) IN OF WELL SITE E-DIFFERENT FORMATION Using dates, depths, volume thanged its name to rty change of operation as described on the a	SIDE TEM TUBI VEN' WAT WAT OTHI Se, etc.  QEP Ene stor is invo	lved. The same st. All operations will
NAME (PLEASE PRINT) Morgan Ar	nderson Andona	TITLE	Regulatory Affairs	s Analyst	
SIGNATURE CO INCOME		DATE			
his space for State use only)					

(5/2000)

**RECEIVED** 

JUN 2 8 2010

(See Instructions on Reverse Side) DIV. OF OIL, GAS & MINING

APPROVED 61301 2009
Carline Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

# Questar Exploration Production Company (N5085) to QEP Energy Company (N3700) RED WASH effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral	type	stat	С
						lease			
RW 41-33B	33	070S	230E	4304720060	5670	Federal	WD	A	
RW 43-28A	28	070S	220E	4304730058	5670	Federal	WD	A	1
RW 34-27B	27	070S	230E	4304715142	5670	Federal	WI	A	
RW 14-13B	13	070S	230E	4304715144	5670	Federal	WI	A	<u> </u>
RW 41-20B	20	070S	230E	4304715146	5670	Federal	WI	A	
RW 21-23B	23	070S	230E	4304715151	5670	Federal	WI	A	_
RW 23-14B	14	070S	230E	4304715161	5670	Federal	WI	A	
RW 41-28B	28	070S	230E	4304715182	5670	Federal	WI	A	
RW 23-18B	18	070S	230E	4304715210	5670	Federal	WI	A	
RW 43-21A	21	070S	220E	4304715219	5670	Federal	WI	A	
RW 41-24A	24	070S	220E	4304715221	5670	Federal	WI	A	
RW 13-22B	22	070S	230E	4304715261	5670	Federal	WI	A	
RW 23-15B	15			4304715267	5670	Federal	WI	A	
RW 21-20B	20			4304715281	5670	Federal	WI	A	<b>-</b>
RW 33-13B	13			4304715289	5670	Federal	WI	A	
RW 21-34A	34			4304715303	5670	Federal	WI	I	
RW 14-24B	24			4304716472	5670	Federal	WI	A	
RW 41-27B	27			4304716473	5670	Federal	WI	I	
RW 43-28B	28	070S		4304716475	5670	Federal	WI	S	
RW 23-23B	23			4304716476	5670	Federal	WI	A	
RW 12-24B	24			4304716477	5670	Federal	WI	A	-
RW 33-22B	22			4304716479	5670	Federal	WI	A	-
RW 41-21B	21			4304716482	5670	Federal	WI	A	
RW 41-15B	15			4304716495	5670	Federal	WI	I	1
RW 21-21B				4304716496	5670	Federal		A	-
RW 14-21B				4304716497	5670	Federal	WI	A	
RW 41-14B				4304716498	5670	Federal	WI	A	
RW 21-27A				4304730103	5670	Federal	WI	A	<del> </del>
RW 34-22A				4304730458	5670	Federal	WI	A	ļ
RW 24-26B				4304730518	5670	Federal	WI	I	
RW 31-35B				4304730519	5670	Federal		Ā	-
RW 33-26B				4304730521	5670			I	-
RW 13-26B				4304730522	5670			A	
RW 11-36B				4304731052	5670	Federal		A	-
RW 31-26B				4304731077	5670			A	<del>                                     </del>
RW 42-35B				4304731081	5670			<u>I</u>	
RW 23-17B				4304732739	5670			A	
RW 43-17B				4304732980	5670			A A	ļ
RW 43-18B				4304732982	5670			A A	-
RW 13-19B				4304733497	5670			A A	
RW 13-20B				4304733498	5670			<u>A</u> A	
RW 33-19B				4304733499	5670			A A	
RW 33-20B				4304733500	5670			A A	
RW 11-19B				4304733552	5670			A A	-

Bonds: BLM = ESB000024 BIA = 956010693 State = 965010695

# Questar Exploration Production Company (N5085) to QEP Energy Company (N3700) RED WASH effective June 14, 2010

well_name	sec	twp	rng	api	entity	mineral	type	stat	С
						lease	31		, -
RW 11-20B	20	070S	230E	4304733553	5670	Federal	WI	A	1
RW 31-19B	19	070S	230E	4304733555	5670	Federal	WI	Α	-
RW 34-24A	24	070S	220E	4304733568	5670	Federal	WI	A	
RW 11-25A	25	070S	220E	4304733574	5670	Federal	WI	A	
RW 13-25A	25	070S	220E	4304733575	5670	Federal	WI	A	
RW 31-25A	25	070S	220E	4304733577	5670	Federal	WI	A	+
RW 33-25A	25			4304733578	5670	Federal	WI	TA	
RW 11-29B	29	070S	230E	4304733590	5670	Federal	WI	A	
RW 12-24A	24	070S		4304733591	5670	Federal	WI	A	
RW 34-13A	13	070S		4304733593	5670	Federal	WI	A	
RW 11-30B	30	070S		4304733785	5670	Federal	WI	A	-
RW 31-30B				4304733788	5670	Federal	WI	A	
RW 33-30B	30			4304733790	5670	Federal	WI	A	

Bonds: BLM = ESB000024 BIA = 956010693 State = 965010695



### **United States Department of the Interior**



BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155 http://www.blm.gov/ut/st/en.html

IN REPLY REFER TO: 3100 (UT-922)

JUL 2 8 2010

Memorandum

To:

Vernal Field Office, Price Field Office, Moab Field Office Roja L Bankert

From:

Chief, Branch of Minerals

Subject:

Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the Eastern States Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from Questar Exploration and Production Company into QEP Energy Company is effective June 8, 2010.

cc:

MMS **UDOGM** 

AUG 16 2018

DIV. OF OIL, GAS A MANAGE

### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

TRAN	SFER OF AUTHORITY TO INJ	ECT	•
Well Name and Number See Attached List		API Number Attached	-
Location of Well Footage: Attached	0	Field or Unit Name Attached	•
OO Casha Tanaka D	County :	Lease Designation and Number	

See Attache	ed List		Attached
Location of We			Field or Unit Name
Footage: A	Attached	County :	Attached
			Lease Designation and Number
QQ, Section	, Township, Range:	State: UTAH	Attached
r			
EFFECTIVE	DATE OF TRANSFER: 6/14/2010	,	
CURRENT OF	PERATOR		
Company:	Questar Exploration and Production Company	Name: Ar	nn Petrik
Address:	1050 17th Street, Suite 500		
Address:		_ Signature:	
	city Denver state CO zip 80265	-	gineering Analyst
Phone:	(303) 672-6900	Date: <u>6/2</u>	28/29/10
Comments	:		
NEW OPERA	TOR		
Company:	QEP Energy Company	Name: Ar	η Petrik
Address:	1050 17th Street, Suite 500	Signature:	
	city Denver state CO zip 80265		ngineering Analyst
Phone:	(303) 672-6900		28/2010
Comments			
This space for S	tate use only)		
Transfer ap	pproved by:	Approval Date:	
	Title: Accepted by the		a Al
	Accepted by the Utah Division of	EF	PA approved well
Comr	nents: Oil, Gas and Mining		//

RECEIVED JUN 2 8 2010



Independence Plaza 1050 17th Street, Suite 500 Denver, CO 80265 Tel 303-672-6900 Fax 303-294-9632

**Rocky Mountain Region** 

June 24, 2014

Ms. Sarah Roberts (8ENF-UFO)
U.S. Environmental Protection Agency, Region 8
1595 Wynkoop Street
Denver, CO 80202-1129

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JUN 2 7 2014

DIV. OF OIL. GAS & MINING

RE: Notice of Violation for overdue MIT:

RW 33-19B (UT2903-04611) RW 11-36B (UT2000-02453) RW 33-20B (UT2895-04604)

RW 34-24A (UT20898-04607)

9 7S Z3E

Dear Ms. Roberts:

On May 7, 2014 QEP received a letter from the EPA stating that a review of the Annual Monitoring Reports for several of our UIC wells has resulted in a status change from Active to Temporarily Abandoned. Additionally, the letter identified the wells above as being out of compliance with the every two-year MIT requirement for wells with TA status. QEP has conducted MITs on three of the four wells, and the results are attached. The RW 34-24A was recompleted as an oil well. The attached subsequent report sundries submitted to the BLM and UDOGM detail this procedure.

QEP will continue to perform MITs on RW 33-19B, 11-36B and 33-20B every two years in order to comply with EPA rules. I have updated our internal database to reflect the new status designation.

If you have any questions or need additional information, please contact me at 303-308-3060. Thank you.

Sincerely,

Morgan Anderson

**Regulatory Affairs Analyst** 

umongantholoner

**Enclosures:** 

MIT Casing or Annulus Pressure Test Form

MIT Results Spreadsheet with Pressure Test Chart BLM and UDOGM Subsequent Report Sundries

### MECHANICAL INTEGRITY TEST CASING OR ANNULUS PRESSURE TEST

U.S. ENVIRONMENTAL PROTECTION AGENCY
UNDERGROUND INJECTION CONTROL PROGRAM, UIC IMPLEMENTATION SECTION (8P-W-GW)
999 18TH STREET, SUITE 300, DENVER, CO. 80202-2466

	NONE	i	DATE:	6/17/2	)14		IIIVIE	: <u>10:00</u>	_☑AM ∐P
TEST CONDUCTED BY:	TONY JEI	NNE		QEP ENER	RGY COM	PANY			
OTHERS PRESENT: API NUMBER-	CODY HA 43-047-33499	AGEL		K&E HOT			UT2903-04	1611	
WELL NAME: RW 33-19	В			TYPE: 🔃	R ∏sw		STATUS:	AC 🗹 TA	_ ∪c
FIELD: RED WAS	ВН			UNIT:		0007610		<del>-</del>	
WELL LOCATION:	NW/4, SE/4, SEC 19	9, т	<b>75 □</b> N▽s	<u>R23</u> € ☑	E□ <u>w</u>	COUNTY	: UINTAH	STAT	E: UTAH
OPERATOR: QEP E	NERGY COMPANY								
LAST MIT: 5/9/2007		MAXIMU	JM ALLOWA	BLE PRES	SURE:		2085	PSIG	
IS THIS A REGULAR	SCHEDULED TEST?	<b></b> ✓YES	□ NO						
INITIAL	TEST FOR PERMIT?	YES	Μό						
TEST A	AFTER WELL WORK?	YES	☑ NO						
WELL INJEC	TING DURING TEST?	YES	<b></b> NO	IF YES, RA	TE:			BPD	
E-TEST CASING/TUBING AI	NNULUS PRESSURE:	-	<u>8</u> :P\$	SIG					
					TEOT "0				
MIT DATA TABLE	TEST #1				TEST #2			TI	EST #3
MIT DATA TABLE TUBING INITIAL PRESSURE	PRESSURE	PSIG				PSIG		TI	EST #3 PSIG
TUBING	PRESSURE 187				F	PSIG SIG		TI	
TUBING INITIAL PRESSURE END OF TEST PRESSURE	PRESSURE 187 185	PSIG			F			TI	PSIG
TUBING INITIAL PRESSURE	PRESSURE 187 185 ANNULUS	PSIG PSIG		TUBIN	F	PSIG		TI	PSIG
TUBING  INITIAL PRESSURE END OF TEST PRESSURE  CASING/TUBING	PRESSURE  187 185  ANNULUS 1145.5	PSIG PSIG PSIG		TUBIN	F F	PSIG		TI	PSIG PSIG
TUBING  INITIAL PRESSURE END OF TEST PRESSURE  CASING/TUBING  0 MINUTES	PRESSURE 187 185 ANNULUS 1145.5 1129.1	PSIG PSIG PSIG PSIG		TUBIN 19	F F G 95.8 PSIG	PSIG		Т	PSIG PSIG PSIG
TUBING  INITIAL PRESSURE END OF TEST PRESSURE  CASING/TUBING  0 MINUTES  5 MINUTES	PRESSURE  187 185  ANNULUS  1145.5  1129.1  1115.8	PSIG PSIG PSIG PSIG		TUBIN 19 19	F G 95.8 PSIG 92.7 PSIG	PSIG		TI	PSIG PSIG PSIG PSIG
TUBING INITIAL PRESSURE END OF TEST PRESSURE  CASING/TUBING  0 MINUTES 5 MINUTES 10 MINUTES	PRESSURE 187 185  ANNULUS 1145.5 1129.1 1115.8	PSIG PSIG PSIG PSIG PSIG		TUBIN 19 19 19	G 95.8 PSIG 92.7 PSIG	PSIG		TI	PSIG PSIG PSIG PSIG PSIG
TUBING  INITIAL PRESSURE END OF TEST PRESSURE  CASING/TUBING  0 MINUTES  5 MINUTES  10 MINUTES  15 MINUTES	PRESSURE 187 185  ANNULUS 1145.5 1129.1 1115.8 1105	PSIG PSIG PSIG PSIG PSIG PSIG		TUBIN 19 19 19	F F G 95.8 PSIG 92.7 PSIG 91.3 PSIG	PSIG		TI	PSIG PSIG PSIG PSIG PSIG PSIG
TUBING  INITIAL PRESSURE END OF TEST PRESSURE  CASING/TUBING  0 MINUTES  5 MINUTES  10 MINUTES  15 MINUTES  20 MINUTES	PRESSURE  187 185  ANNULUS  1145.5  1129.1  1115.8  1105  1085.6	PSIG PSIG PSIG PSIG PSIG PSIG PSIG		TUBIN 19 19 19 19	G 95.8 PSIG 92.7 PSIG 91.7 PSIG 91.3 PSIG	PSIG		TI	PSIG PSIG PSIG PSIG PSIG PSIG
TUBING  INITIAL PRESSURE END OF TEST PRESSURE  CASING/TUBING  0 MINUTES  5 MINUTES  10 MINUTES  15 MINUTES  20 MINUTES  25 MINUTES	PRESSURE 187 185  ANNULUS 1145.5 1129.1 1115.8 1105 1095 1085.6	PSIG PSIG PSIG PSIG PSIG PSIG PSIG PSIG		TUBIN 19 19 19 19	G 95.8 PSIG 92.7 PSIG 91.7 PSIG 91.3 PSIG 191 PSIG 90.8 PSIG	PSIG		TI	PSIG PSIG PSIG PSIG PSIG PSIG PSIG
TUBING  INITIAL PRESSURE END OF TEST PRESSURE  CASING/TUBING  0 MINUTES  5 MINUTES  10 MINUTES  15 MINUTES  20 MINUTES  25 MINUTES  30 MINUTES	PRESSURE 187 185  ANNULUS 1145.5 1129.1 1115.8 1105 1095 1085.6 1075.6	PSIG PSIG PSIG PSIG PSIG PSIG PSIG PSIG		TUBIN 19 19 19 19	95.8 PSIG 92.7 PSIG 91.7 PSIG 91.3 PSIG 191 PSIG 90.8 PSIG	PSIG		Ti	PSIG PSIG PSIG PSIG PSIG PSIG PSIG PSIG

DOES THE ANNULUS PRESSURE BUILD BACK UP AFTER THE TEST?

☐YES ☑ NO

3000

PSIG

		CASING	TUBING	
Date	Time	PRESSURE	PRESSURE	TEMP
6/17/2014	10:12:07	8	187	73
6/17/2014	10:12:23	472.14		73
6/17/2014	10:12:39	473.15		73
6/17/2014	10:12:55	585.7		73
6/17/2014	10:13:11	849.1		73
6/17/2014	10:13:27	1110		73
6/17/2014	10:13:43	1144.9		73
6/17/2014	10:13:59	1150.1		73
6/17/2014	10:14:15	1149.4		73
6/17/2014	10:14:31	1146.8		73
6/17/2014	10:14:47	1145.5	195.8	73
6/17/2014	10:15:03	1144.8		73
6/17/2014	10:15:19	1143.7		73
6/17/2014	10:15:35	1142.6		73
6/17/2014	10:15:51	1141.6		73
6/17/2014	10:16:07	1140.7		73
6/17/2014	10:16:23	1139.7		73
6/17/2014	10:16:39	1138.8		73
6/17/2014	10:16:55	1138		73
6/17/2014	10:17:11	1137.1		73
6/17/2014	10:17:27	1136.2		73
6/17/2014	10:17:43	1135.4		73
6/17/2014	10:17:59	1134.6		73
6/17/2014	10:18:15	1133.7		73
6/17/2014	10:18:31	1133		73
6/17/2014	10:18:47	1132.2		73
6/17/2014	10:19:03	1131.4		73
6/17/2014	10:19:19	1130.6		73
6/17/2014	10:19:35	1129.9		73
6/17/2014	10:19:51	1129.1	192.7	73
6/17/2014	10:20:07	1128.4		73
6/17/2014	10:20:23	1127.6		73
6/17/2014	10:20:39	1126.9		73
6/17/2014	10:20:55	1126.1		73
6/17/2014	10:21:11	1125.4		73
6/17/2014	10:21:27	1124.7		73
6/17/2014	10:21:43	1124		73
6/17/2014	10:21:59	1123.2		73
6/17/2014	10:22:15	1122.6		73
6/17/2014	10:22:31	1121.9		73
6/17/2014	10:22:47	1121.2		73
6/17/2014	10:23:03	1120.5		73

		CASING	TUBING	
Date	Time	PRESSURE	PRESSURE	TEMP
6/17/2014	10:23:19	1119.8	I ILLOSONE	73
6/17/2014	10:23:35	1119.1		73
6/17/2014	10:23:51	1118.5		73
6/17/2014	10:24:07	1117.8		73
6/17/2014	10:24:23	1117.1		73
6/17/2014	10:24:39	1116.5		73
6/17/2014	10:24:55	1115.8	191.7	73
6/17/2014	10:25:11	1115.1		73
6/17/2014	10:25:27	1114.5		73
6/17/2014	10:25:43	1113.8		73
6/17/2014	10:25:59	1113.2		73
6/17/2014	10:26:15	1112.5		73
6/17/2014	10:26:31	1111.9		73
6/17/2014	10:26:47	1111.3		73
6/17/2014	10:27:03	1110.7		73
6/17/2014	10:27:19	1110.1		73
6/17/2014	10:27:35	1109.5		73
6/17/2014	10:27:51	1108.9		73
6/17/2014	10:28:07	1108.3		73
6/17/2014	10:28:23	1107.7		73
6/17/2014	10:28:39	1107.2		73
6/17/2014	10:28:55	1106.6		73
6/17/2014	10:29:11	1106.1		73
6/17/2014	10:29:27	1105.5		73
6/17/2014	10:29:43	1105	191.3	73
6/17/2014	10:29:59	1104.4		73
6/17/2014	10:30:15	1103.9		73
6/17/2014	10:30:31	1103.3		73
6/17/2014	10:30:47	1102.8		73
6/17/2014	10:31:03	1102.2		73
6/17/2014	10:31:19	1101.7		73
6/17/2014	10:31:35	1101.2		73
6/17/2014	10:31:51	1100.7		73
6/17/2014	10:32:07	1100.1		73
6/17/2014	10:32:23	1099.6		73
6/17/2014	10:32:39	1099		73
6/17/2014	10:32:55	1098.5		73
6/17/2014	10:33:11	1098		73
6/17/2014	10:33:27	1097.5		73
6/17/2014	10:33:43	1097		73
6/17/2014	10:33:59	1096.5		73
6/17/2014	10:34:15	1096		73
6/17/2014	10:34:31	1095.5		73
6/17/2014	10:34:47	1095	191	73

		CASING	TUBING	
Date	Time	PRESSURE	PRESSURE	TEMP
6/17/2014	10:35:03	1094.5		73
6/17/2014	10:35:19	1094		73
6/17/2014	10:35:35	1093.5		73
6/17/2014	10:35:51	1092.9		73
6/17/2014	10:36:07	1092.5		73
6/17/2014	10:36:23	1092		73
6/17/2014	10:36:39	1091.5		73
6/17/2014	10:36:55	1091		73
6/17/2014	10:37:11	1090.5		73
6/17/2014	10:37:27	1090		73
6/17/2014	10:37:43	1089.5		73
6/17/2014	10:37:59	1089		73
6/17/2014	10:38:15	1088.5		73
6/17/2014	10:38:31	1088		73
6/17/2014	10:38:47	1087.5		73
6/17/2014	10:39:03	1087		73
6/17/2014	10:39:19	1086.6		73
6/17/2014	10:39:35	1086		73
6/17/2014	10:39:51	1085.6	190.8	73
6/17/2014	10:40:07	1085.1		73
6/17/2014	10:40:23	1084.6		73
6/17/2014	10:40:39	1084.1		73
6/17/2014	10:40:55	1083.6		73
6/17/2014	10:41:11	1083.1		73
6/17/2014	10:41:27	1082.6		73
6/17/2014	10:41:43	1082.1		73
6/17/2014	10:41:59	1081.6		73
6/17/2014	10:42:15	1081.1		73
6/17/2014	10:42:31	1080.6		73
6/17/2014	10:42:47	1080.1		73
6/17/2014	10:43:03	1079.6		73
6/17/2014	10:43:19	1079		73
6/17/2014	10:43:35	1078.5		73
6/17/2014	10:43:51	1078.1		73
6/17/2014	10:44:07	1077.6		73
6/17/2014	10:44:23	1077.1		73
6/17/2014	10:44:39	1076.6		73
6/17/2014	10:44:55	1076.1		73
6/17/2014	10:45:11	1075.6	190.7	73
6/17/2014	10:45:27	1075.1		73
6/17/2014	10:45:43	1074.6		73
6/17/2014	10:45:59	1074.1		73
6/17/2014	10:46:15	1073.6		73
6/17/2014	10:46:31	1073.1		73

		CASING	TUBING	
Date	Time	PRESSURE	PRESSURE	TEMP
6/17/2014	10:46:47	1072.6		73
6/17/2014	10:47:03	1072.1		73
6/17/2014	10:47:19	1071.7		73
6/17/2014	10:47:35	1071.2		73
6/17/2014	10:47:51	1070.7		73
6/17/2014	10:48:07	1070.2		73
6/17/2014	10:48:23	1069.7		73
6/17/2014	10:48:39	1069.3		73
6/17/2014	10:48:55	1068.8		73
6/17/2014	10:49:11	1068.3		73
6/17/2014	10:49:27	1067.8		73
6/17/2014	10:49:43	1067.2		73
6/17/2014	10:49:59	1066.5		73
6/17/2014	10:50:15	1065.9		73
6/17/2014	10:50:31	663.6		73
6/17/2014	10:50:47	6.922		73
6/17/2014	10:51:03	0		73
6/17/2014	10:51:19	0		73
6/17/2014	10:51:35	0		73
6/17/2014	10:51:51	0		73
6/17/2014	10:52:07	0	185	73
6/17/2014	10:52:23	0		73
6/17/2014	10:52:39	0		73
6/17/2014	10:52:55	0		73
6/17/2014	10:53:11	0		73
6/17/2014	10:53:27	0		73
6/17/2014	10:53:43	0		73
6/17/2014	10:53:59	0		73
6/17/2014	10:54:15	0		73
6/17/2014	10:54:31	0		73
6/17/2014	10:54:47	0		73
6/17/2014	10:55:03	0		73
6/17/2014	10:55:19	0		73
6/17/2014	10:55:35	0		73
6/17/2014	10:55:51	0		73
6/17/2014	10:56:07	0		73
6/17/2014	10:56:23	0		73
6/17/2014	10:56:39	0		73
6/17/2014	10:56:55	0		73
6/17/2014	10:57:11	0		73
6/17/2014	10:57:27	0		73
6/17/2014	10:57:43	0		73
6/17/2014	10:57:59	0		73
6/17/2014	10:58:15	0		73

CASING TUBING

Date Time PRESSURE PRESSURE TEMP

